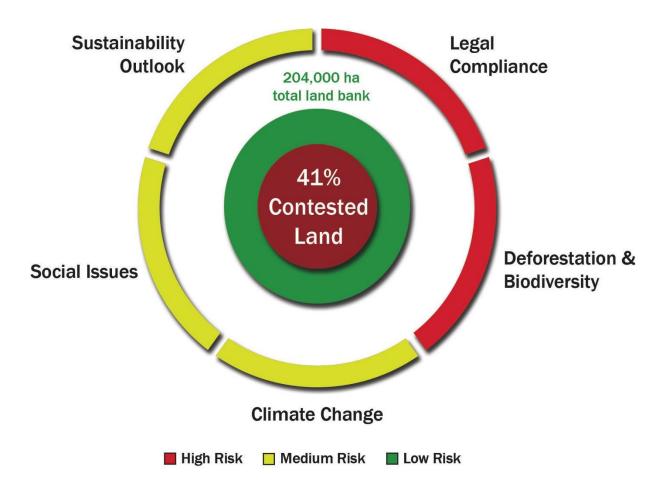


INITIATING COVERAGE

15 October 2014

Bumitama Agri Ltd. **MEDIUM RISK**

Oil palm plantation ISIN: SG2E67980267 | SGX: P8Z | Bloomberg: BAL:SP







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Summary

Warding off Sustainability Risk

This Chain Reaction Research (CRR) report analyzes the financial risk profile of Bumitama Agri Ltd. (BAL:SP), a rapidly growing palm oil company. We looked at sustainability risks associated with the group's 204,000 hectare (ha) land bank in Kalimantan, Indonesia – an area that the company identifies as available for plantation development.

Detailed analysis of 16 of the group's 18 plantation subsidiaries shows that Bumitama has been involved in significant deforestation, peatland development and legal irregularities since the group entered the plantation business in 1998. Continuation of such practices places the group at serious risk of losing its two major customers.

Wilmar International and Golden Agri-Resources (GAR) together purchase approximately 90 percent of Bumitama's palm oil supply. As of early 2014, both companies have adopted stringent sourcing policies that disqualify third-party suppliers who engage in deforestation, peat development and social exploitation. In the months since, Bumitama has taken several steps that may mitigate some of the worst risks.

In this report, CRR reviews how Bumitama accumulated its sustainability risk profile over the years, and assesses the potential financial consequences should the group fail to duly address its sustainability risk exposure. An earlier version of this report was sent to Bumitama Agri for review, and this final report integrates information from its response.

Contested Land Bank: 41%

At the core of our Sustainability Risk Assessment (SRA) is an analysis of how much of a company's land bank may be "contested land" – i.e. covered by limits to plantation development imposed by law, the Roundtable on Sustainable Palm Oil (RSPO), buyer and investor policies or land disputes with communities and other companies.

41 percent of Bumitama's 204,000 hectare land bank – 83,000 hectares of land – is potentially or *de facto* contested. Though that amount has fallen over the past six months, it is still on the medium-high range for palm oil companies.

Over 80 percent of recorded contested land can be settled through established government and RSPO procedures, which require that the company reserve significant budget for land compensation. Around 14,400 ha are however more seriously contested, as due to a recent Supreme Court ruling rights are lost over 7,100 ha and 7,300 ha of forestland could be reclaimed by the Ministry of Forestry. Additionally, Bumitama may lose rights due to overlapping claims with other companies, especially mining interests not linked to the Harita Group.

With 23 percent of its land bank dedicated to smallholders, the group exceeds the mandatory 20% target and outperforms many other growers on this measure. However, Bumitama has yet to help resolve two significant land conflict cases involving smallholder schemes in Central Kalimantan.

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Financial Liability from Past Wrongdoings: Significant, But bearable

In order to resolve unauthorized forestland occupation of almost 40,000 hectares, Bumitama has sought amnesty for 32,400 hectares. If approved by the Ministry of Forestry, the company will be required to finance forest restoration at an estimated cost of USD 86.7 million. While significant, this cost is likely to be bearable by the company.

CRR did not assess Bumitama's "compensation debt" in detail. We estimate it may have to settle with RSPO an area of 20,000 hectares, just for forest cleared between 2010 and 2013. Bearing in mind the forest types cleared, we estimate the compensation at USD 30 million in cash value. Compensation may also be settled in kind on its own land bank or through restoration projects elsewhere. Bumitama had recently announced that it would set aside an additional 8,500 ha of High Carbon Stock forest and peat land that would contribute to a settlement.

Financial Liability from Non-Compliance with Buyers' Policies: Disastrous

NGO investigations in 2013 and 2014 revealed that commitments by Bumitama's senior management to halt land development on the ground had not been fully implemented. Consequently, RSPO eventually slapped the company with several "stop-work orders" while Bumitama's key buyers put pressure on the company to rapidly address the issues in the supply chain.

If Bumitama's senior management does not settle historical wrongdoings and uncontrolled development is left unaddressed, then the group would be exposed to the serious risk of seeing its two main buyers suspend or cancel supply contracts. If its most important customer, Wilmar International, were to stop purchasing Bumitama's palm oil, the company's revenue would decline an estimated 43% in 2015 before recovering somewhat in 2016 if the company could find new customers. Under this scenario, Bumitama would experience a negative Return on Equity (RoE) in 2015. Depending on its ability to cut its existing contracts with external FFB suppliers, the company could regain some profitability in 2016. However, should Wilmar's decision to cancel its contracts be followed by its second largest buyer, Golden Agri-Resources, then the outcome would be disastrous. The two buyers represent about 90% of Bumitama's market.

Sustainability to Secure Sustained Market Access

Although Wilmar and other trader-refiners with third-party supplier policies do not disclose contract suspensions and cancellations, the financial implications of such measure represent a powerful threat to numerous plantation groups. For a pure grower like Bumitama, the impact of contract cancellation would be especially devastating.

It is therefore not surprising that, in 2014, Bumitama's senior management strengthened the company's sustainability department with a greater mandate, as well as financial and human resources. The group has:

- Ended three management contracts with third parties who claimed rights over highly contested land bank.
- Engaged with NGOs to resolve several formal complaints and grievances filed with RSPO, most of which are now in the final stage of resolution.



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• Embraced the concept of High Carbon Stock (HCS) for five estate subsidiaries with remaining undeveloped land. On 12 September 2014, Bumitama announced it would exclude an additional 8,500 ha of forest and peatland from development, in addition to other conservation areas already set aside.

Bumitama is in the process of finalizing its review and reformulation of its sustainability policy, which is scheduled to be published in late 2014.

Bumitama is working to become an industry leader, but the company has yet to resolve a variety of issues within its remaining contested land bank. The company is likely to have to surrender more land bank because of non-compliance with law, in addition to RSPO and market requirements.

BUMITAMA AGRI LTD. MEDIUM RISK



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973.2

3.2%

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1 Overview of Bumitama Agri

1.1 Key financial figures

Bumitama Agri Ltd. (BAL: SP) was first listed on the Singapore stock exchange in April 2012 and has a market capitalization of USD 1.72 billion. Bumitama is majority-owned by the Hariyanto family from Indonesia, whilst the Malaysian IOI Corporation (IOI) owns a 31% stake in the company. In addition, Bumitama and IOI operate several joint ventures together.

With revenues of USD 392.2 million and a net income of USD 82.6 million in 2013, Bumitama showed a high net profit margin of 24.2% and a Return on Equity (RoE) of 15.2%.

	FY2012 (USD million)		Change %		
Sales	376.0	392.1	4.2%		
EBITDA	138.2	141.1	2.1%		
Net Profit	96.2	94.8	-1.4%		
Net Profit Margin	25.6%	24.2%	-5.5%		

Table 1 Key financial figures for Bumitama Agri, 2012-2013

Source: Bumitama Agri, "Annual Report 2013".

943.4

The development of key financial figures and financial ratios of Bumitama Agri is further discussed in section 3.

1.2 Oil palm plantations

Total Assets

Bumitama reports a total land bank of 204,052 hectares in three Indonesian provinces: West Kalimantan, Central Kalimantan and Riau. At the end of 2013, Bumitama had planted 149,683 hectares with oil palms (see Table 2).¹

Table 2 Oil palm land bank of Bumitama Agri by province, end 2013

Province	Land bank (ha)	Planted (ha)
Riau	2,400	2,309
West Kalimantan	around 100,000	4 4 7 7 7 4 *
Central Kalimantan	around 100,000	147,374*
Total	204,052	149,683

* Province not further specified

Source: Bumitama Agri, "Annual Report 2013"; Website Bumitama Agri; Concession maps.

Of Bumitama's total planted area, 77% are so-called *nucleus* plantations which are managed by the company and its subsidiaries. The other 23% are the so-called *plasma* plantations which the company has handed over to be managed by smallholders. According to government regulations governing the development of *plasma* plantations, the smallholders sell their oil palm fruits for a fixed price to the company for further processing.²

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Figure 1 shows where Bumitama Agri's oil palm plantations and CPO mills are located in Indonesia.

Source: Bumitama Agri, "Annual Report 2013".

Around 54,369 hectares (27% of the company's total land bank) was not planted at the end of 2013. Because this area is not fully available for future plantings as it includes areas designated for conservation, roads and buildings, the potential to expand the planted area is smaller.

In 2014, Bumitama Agri aims to plant 8,000 hectares.³ CRR expects that the company will fall short of this target due several "stop work orders" issued by the RSPO pending resolution of several complaints that affected expansion plans in several estates in West and Central Kalimantan.

Plantation maturity	Area (ha)	% of planted area	% of land bank
Mature	90,483	60%	44%
Immature	59,200	40%	29%
Total planted	149,683	100%	73%
Not planted	54,369		27%
Total land bank	204,052		100%

Table 3 Maturity of Bumitama Agri's oil palm plantations, end of 2013 (hectares)

Source: Bumitama Agri, "Annual Report 2013".

At the end of 2013, 60% of Bumitama Agri's planted areas had reached maturity, as shown in Table 3. The weighted average age of its palm oil trees is six years and only 31% of the planted area has reached the peak production age. A substantial part of Bumitama Agri's plantations (40%) is still immature, which implies an uptick in production in the coming years as trees mature and yields per hectare will increase.⁴

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1.3 CPO mills

Bumitama Agri operates eight CPO mills with a total FFB processing capacity of 3.1 million metric tonnes per annum, located in close proximity to its plantations.⁵ In 2014, a new CPO mill will become operational to expand its FFB processing capacity to 4.0 million tons per year.⁶ Table 4 shows that the volume of FFB processed in 2013 (2.2 million tonnes in 2013) is well below the (future) capacity of its CPO mills.

Production indicator	Unit	Quantity	% of FFB processed
FFB production nucleus plantations	1,000 tons	1,105	49%
FFB production plasma plantations	1,000 tons	515	23%
Total FFB production	1,000 tons	1,620	72%
FFB yield per mature hectare (tons/ha)	tons/ha	17.4	
FFB acquired from external suppliers	1,000 tons	629	28%
Total FFB processed	1,000 tons	2,249	100%
CPO production	1,000 tons	523	
CPO extraction rate	%	23.3	
Palm kernel production	1,000 tons	99	

Table 4 Bumitama Agri's FFB and CPO production in 2013

Source: Bumitama Agri, "Annual Report 2013"; Bumitama Agri (2014, 28 February), "Full Year & Fourth Quarter 2013 Presentation".

In 2013, Bumitama Agri processed 2.2 million tonnes of FFB, of which 23% was sourced from plasma smallholders and 28% from third parties. This resulted in an annual CPO production of 522,743 metric tonnes, up 13.1% in comparison to 2012. The third parties supplying FFB to the company are mostly Village Unit Cooperatives (KUD) of smallholders in the regions where its CPO mills are located.⁷

Bumitama Agri's yield figure (17.4 tons of FFB per hectare) is still below competitors like Astra Agro Lestari (20.7 tons/ha)⁸ and SMART (22.4 tons/ha)⁹, due to the lower maturity rate of its plantations. In the medium and longer term, yields are expected to increase as its plantations mature and reach peak production.

1.4 Customers

Table 5 shows that Bumitama Agri's sales were largely dependent on two major customers, Wilmar International and Golden Agri-Resources, in 2011 and 2012.

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Customer	2011 Sales %	2012 Sales %		
Wilmar International	57	61		
Golden Agri-Resources	25	26		
Musim Mas	4	2		
Dasco	na	5		
Others	14	6		
Total	100	100		

Table 5 Bumitama Agri's main customers, 2011-2012

Source: Bumitama Agri (2012), "Prospectus", p. 150; Maybank Kim Eng, "Bumitama Agri", 2 May 2013, page 8.

For 2013, no sales figures per customer are available but Bumitama Agri revealed that its two main customers (i.e. Wilmar and GAR) represented 91% of total sales.¹⁰ As detailed in section 4 on the financial risk assessment, losing one or both of these customers due to non-compliance with the traders' "No Deforestation" policies is probably the single biggest risk to Bumitama's future financial performance.

1.5 Ownership structure

In April 2012 Bumitama Agri, conducted an IPO on the Singapore Stock Exchange. The company issued 297.6 million shares with a total value of USD 195.2 million, accounting for 16.9% of the total outstanding shares.¹¹ Despite selling these shares to the public, the Hariyanto family still owned 50.9% of the shares at the end of 2013, while IOI Corporation owned 31.3% of the shares. The remaining shares were in the hands of other (institutional) investors (see Figure 2).¹²

1.5.1 *Hariyanto family*

Lim Hariyanto and his son Lim Gunawan Hariyanto, the present group executive chairman and CEO, own 50.9% of the shares of Bumitama Agri. This makes the company into one of the key pillars of the Harita Group, a conglomerate founded by the Hariyanto family, which is primarily engaged in bauxite and nickel mining and presently investing in alumina and nickel smelters¹³, logging and wood processing.¹⁴ The group's business activities all are located in Indonesia.

1.5.2 *IOI Corporation*

The second main shareholder of Bumitama Agri is oil palm company IOI Corporation, which controls 31.3% of the shares. The IOI Group is a Malaysia-based conglomerate active in the palm oil business (IOI Corporation Berhad) and property development (IOI Properties Group Berhad). Both companies are listed on the main market of Bursa Malaysia. The group is led by its founder, Lee Shin Cheng, who owns about 45% of the shares of IOI Corporation.¹⁵ One of his two sons, Lee Yeow Chor, is Chief Executive Officer of IOI Corporation Berhad. His other son, Lee Yeow Seng, is Chief Executive Officer of IOI Properties Group Berhad.¹⁶

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Figure 2 100% Progressive Holdings (Malaysia) Lee family 100% Hariyanto family Vertical Capacity Sdn (Malaysia) 100% 44.7% 100% Fortune Holdings IOI Corporation (Malaysia) (Singapore) 100% 100% 100% Oakridge Wellpoint Pacific Lynwood Capital Investments Holdings (British Virgin Islands) Resources Oleander (Singapore) (Singapore) Resources (Singapore) 0.9% 30.4% 50.9% 67% Other Bumitama Agri 17.7% PT Berkat Agro shareholders (Singapore) 28% Sawitindo (Indonesia) 90% 28% 90% 67% PT Bumitama PT Bumitama PT Sawit Nabati Gunajaya Agro (Indonesia) Sawit Lestari Agro (Indonesia) (Indonesia) 100% 95% Various Various Various plantations plantations plantations (Indonesia) (Indonesia) (Indonesia)

Ownership structure of Bumitama Agri

Sources: Bumitama Agri, "Annual Report 2013", Bumitama Agri, April 2014; IOI Corporation, "Annual Report 2013", IOI Corporation, September 2013.

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2 Sustainability Risk Assessment

2.1 Introduction

Our Sustainability Risk Assessment (SRA) methodology is based on detailed mapping of plantation companies' land bank in relation to legislative requirements and voluntary commitments to sustainable practices, which may also be terms set by a company's core buyers and investors.¹⁷ The following sections elaborate on the sustainability risks Bumitama Agri is facing in the following areas:

- Deforestation and orangutan habitat (section 2.2);
- Impacts on climate change (section 2.3);
- Legal compliance (section 2.4);
- Social issues (section 2.5);
- Governance issues (section 2.6);
- RSPO certification (section 2.7).

As a summary of all land-related issues described in previous sections, section 2.8 calculates Bumitama Agri's contested land percentage. Finally, section 2.9 discusses how the sustainability risk which Bumitama Agri is facing could affect its co-owner IOI Corporation.

2.2 Deforestation and orangutan habitat

According to satellite imagery analysis by Chain Reaction Research, an area of about 20,000 ha has been deforested in the period 2010-2013 within the land bank of Bumitama Agri, with the Central Kalimantan plantations of PT Hatiprima Agro (4,000 ha) and PT Karya Makmur Bahagia (3,000 ha) as main examples.¹⁸ The bulk of this forest represented actual or potential orangutan habitat.¹⁹ In Indonesia, it is illegal to hunt or otherwise kill orangutans but habitat conversion is not considered illegal at this time. Nonetheless, the conversion of orangutan habitat represents a major international reputation risk to any company group that is associated with further endangering the species.

Since Bumitama Agri started clearing land in 1998, it cleared potential or actual orangutan habitat for the development of the plantations of PT Karya Makmur Bahagia (more than 9,000 ha), PT Windu Nabatindo Abadi (more than 6,000 ha) and PT Hatiprima Agro (more than 5,000 ha), among others.²⁰ In 2009, company staff acknowledged that approximately 20 orangutans were rescued in the PT Karya Makmur Bahagia concession from 2007 to 2008.²¹



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Photo: Glenn Hurowitz.

In its 2012 annual report, published in March 2013, Bumitama Agri stated that its policy was to "refrain from putting at risk areas of High Conservation Value (HCV) interest or habitats important for endangered plant or animal species."²² However, International Animal Rescue filed a complaint with the RSPO against Bumitama Agri for clearing orangutan habitat in 2013 in the concession area of its subsidiary PT Ladang Sawit Mas (LSM) in West Kalimantan, as evidenced by the fact that the group had rescued four orangutans.

Similar complaints were filed by other NGOs to raise concerns over orangutan habitat conversion by its subsidiaries PT Nabatindo Karya Utama (NKU) and PT Andalan Sukses Makmur (ASMR) in Central Kalimantan. On the complaint concerning PT LSM the *RSPO Complaints Panel* found that the company had been clearing land before completing its *High Conservation Value (HCV)* assessment. The Complaints Panel also noted parallels with the complaint against PT NKU. This made the *RSPO Complaints Panel* state that the practices of Bumitama might be "systemic in nature".²³ In its response to the CRR draft-report Bumitama mentioned that an independent report²⁴ has proven that in the case of PT NKU there has been no clearance of land before carrying out HCV-assessments.

Confronted with several complaints filed by civil society in 2013, Bumitama Agri's management committed to take additional steps towards the group's adherence to the RSPO Principles and Criteria, including the issuance of management level instructions to halt land clearing in contested concessions.²⁵ However, in the wake of similar commitments in the past, NGO and media reports found Bumitama to have broken these commitments.²⁶



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Photo: Friends of the Earth.

Recently, the group has said that it has set aside land for conservation and restoration purposes. In its annual report 2013 the company wrote: "Bumitama has more than 11,000 hectares of land under HCV area where rehabilitation plans and activities are on-going."²⁷ In its response of 4 September 2014 to the CRR draft-report Bumitama mentioned having about 12,500 ha of HCV area where remedial and reforestation programmes (where required) are being mapped out.

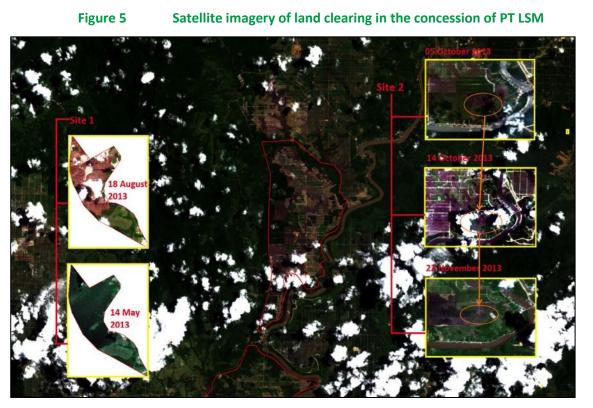
In its response to the CRR draft-report Bumitama highlighted some recent deeds, often triggered by RSPO-complaints, with regard to the plight of orangutans. Three orangutans within the PT ASMR concession are monitored regularly. Late 2013, PT ASMR returned 809 ha of its concession back to the regional government for conservation by Tanjung Puting National Park (TNTP) as the area was identified as HCV as well as the feeding station for orangutans in the TNTP. On behalf of PT LSM a carrying capacity study was conducted by Universitas Tanjungpura and BKSDA West Kalimantan. This has led to the relocation of five orangutans in the period December 2013 – April 2014.

Bumitama also stated that it will work together with the governmental BKSDA (Natural Resource Conservation Agency) and the Borneo Orangutan Survival Foundation (BOSF) in Central Kalimantan and BKSDA and IPB University in West Kalimantan on conservation of the biodiversity of HCV areas and mitigation of conflict programmes for orangutans and other wildlife. The company provides training to its patrol teams, to closely monitor the presence of orangutans in its land bank. Bumitama sees no significant future risk on the orangutan issue.

With some 12,000 ha of potential orangutan habitat remaining within Bumitama Agri's undeveloped land bank²⁸, the company's adherence to its commitments is likely to strongly determine its ability to maintain its customer base, given rising sustainability requirements and the markets' intense focus on Bumitama's performance.



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Source: Aidenvironment.

Bumitama Agri is a member of the Roundtable on Sustainable Palm Oil (RSPO), which has adopted a Remediation and Compensation Procedure to allow companies that had previously cleared land without conducting High Conservation Value (HCV) assessments to qualify for certification through remediation and compensation. Chain Reaction Research has not assessed Bumitama Agri's compensation obligations in detail but assuming recorded deforestation over the 2010-2013 period²⁹ as an indicator, Bumitama Agri would have to provide compensation to the RSPO for an area of approximately 20,000 ha. A recent example is the HCV area deforested recently by Bumitama Agri's subsidiary PT Ladang Sawit Mas, as shown on the left side of the satellite views of the concession area (Figure 6).

The RSPO Compensation Procedure, which was adopted in April 2014, would require Bumitama to compensate for recent deforestation. CRR did not assess Bumitama's "compensation debt" in detail. We estimate it may have to settle with RSPO an area of 20,000 hectares for forest cleared for the period 2010-2012 alone. Bearing in mind the forest types cleared, we estimate the compensation at USD 30 million in cash value. Compensation may also be settled in kind in situ or ex situ.

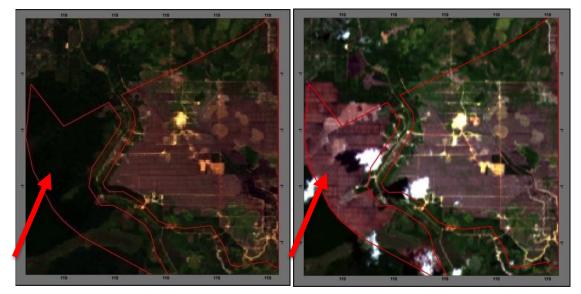
On 12 September 2014 Bumitama announced that for five plantation subsidiaries it will set aside an additional area of 8,500 ha High Carbon Stock land (this figure includes peat areas).³⁰ Such extra conservation set-asides represent an alternative to cash allocation to compensate for land clearing without prior HCV assessments.

At present, the compensation requirements of the RSPO are separate from the compensation requirements Bumitama may face under Government Regulation 60/2012 (section 2.4.1). For more information on Bumitama and RSPO certification, please see section 2.7.



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Figure 6 Satellite views PT Ladang Sawit Mas in May 2013 (left) and August 2013 (right)



Sources: Landsat satellite images, 2010 and 2013.

2.3 Impacts on climate change

2.3.1 **Peatland development**

The main impact on climate change from oil palm plantation companies concerns the development and drainage of peatlands. Bumitama Agri's public policy, as laid out in its 2012 Prospectus is that the group does not cultivate oil palm trees on moderate to deep peat.³¹ Without specification of what defines depth, it cannot be assessed whether the group upheld its own policy.

According to our analysis of concession maps, five out of Bumitama Agri's 18 estate subsidiaries jointly opened up some 12,000 ha of peatland in Kalimantan.³² Some of this development involved peatlands of over two and three meters deep.³³ Most of these peatlands are mapped as moderately deep. Indonesian regulations do not allow for development of peat more than 3 meters deep.

In its response to the CRR draft-report Bumitama states that it has been in compliance with the Indonesian regulation on peat and has its own internal Standard Operating Procedure (SOP) on Management of Peatland, based on RSPO Best Management Practice for existing oil palm cultivation on peat. The group has over the past months commissioned studies to identify remaining peatland on its unplanted area to assess the consequences of a 'No new peat, regardless of depth' policy. CRR estimates that some 1,500 ha of undeveloped peatland remains in the group's unplanted land bank of more than 50,000 ha.³⁴

2.3.2 Burning for land clearing

The company maintains a "zero burning policy for planting of new oil palm trees."³⁵ Based on analysis of fire hot spots recorded by satellite imagery, CRR did not observe a pattern of systemic open burning in Bumitama Agri's concessions. But evidence gathered by aerial survey demonstrates that Bumitama Agri's fire prevention and management systems remain sub-standard.³⁶



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Figure 7 shows a patch of land burning at close proximity of the estate office of Bumitama Agri's subsidiary Ladang Sawit Mas in February 2014. The fire burned at close vicinity of an excavator presumed to be digging the land or Palm Oil Mill Effluent (POME) basins. This fire was just one of several burnt locations in this concession area, one of which was located even very close to the estate office complex. In its response to the CRR draft-report Bumitama has confirmed the fire in Figure 7 as a sporadic incident. According to Bumitama the fire occurred in an area of not more than 10 ha, and it was effectively extinguished in less than half a day. The company also stated it is a common practice for its plantation to have a watchtower and fire alert procedure, though it also stated to be in the midst of constructing a fire watchtower for PT LSM whilst land clearing already commenced some two years ago. The company also stated that it regularly conducts fire-fighting training with the inclusion of communities in all of its operations. The latest fire-fighting and awareness training was conducted in July 2014 in the PT ASMR and PT NKU area.





2.4 Legal compliance

2.4.1 *Forestland occupation*

In Indonesia, the management of the forestland estate falls under the statutory jurisdiction of the Ministry of Forestry. The Indonesian Forestry Act Nr. 41/1999 prohibits occupying forestland without prior permission of the Ministry of Forestry. Since decentralization was introduced in 1999-2001, the Ministry's exclusive claim over the forestland estate has been challenged by local authorities who have issued hundreds of permits to oil palm plantation companies, overlapping with millions of ha of forestland.

Government Regulation No. 60/2012 of 6 July 2012 attempts to address this problem, which was costing the state significant revenue.³⁷ Plantation companies holding an oil palm license over forestland categorized as Production Forest (HP) and Limited Production Forest (HPT) were offered a one-time opportunity to apply for the acquisition of compensation land until 6 January 2013 in



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exchange for an amnesty for previous deforestation that had occurred without the required national permits.

Based on the most recent Ministry of Forestry's Land use Designation maps for West and Central Kalimantan, the concession areas of eight Bumitama Agri subsidiaries overlap with a total of 39,700 ha of forestland estate. However, according to CRR's records, Bumitama submitted only four applications for amnesty under Government Regulation 60, covering some 32,400 ha of forestland estate (see Table 6).³⁸ Bumitama, in its response to the CRR draft-report, did not go into details on the area of 32,400 ha.

Plantation subsidiary	Province	Applied for amnesty under GR60/2012		Not applied for amnesty under GR60/2012	
		HP+HPT	НРК	HP+HPT	НРК
PT Bumitama Gunajaya Abadi (BGA)	Central Kalimantan	18,200	2,300		
PT Nabatindo Karya Utama (NKU)	Central Kalimantan	5,800			
PT Windu Nabatindo Sejahtera (WNS)	Central Kalimantan	4,900			
PT Windu Nabatindo Lestari (WNL)	Central Kalimantan		1,200		
PT Windu Nabatindo Abadi (WNA)	Central Kalimantan			1,500	
PT Lestari Gemilang Intisawit (LGI)	West Kalimantan			2,600	
PT Karya Makmur Bahagia (KMB)	Central Kalimantan				1,800
PT Hatiprima Agro (HPA)	Central Kalimantan				1,400
Total		28,900	3,500	4,100	3,200
			32,400		7,300

Table 6 Bumitama Agri's land bank within forestland estate

Sources: Landuse Designation, MoF (529 Central Kalimantan), 2013. Landuse Designation, MoF (936 West Kalimantan, boundaries designated forestland), 2013. Areas less than 500 ha have not been taken into account. Ministry of Forestry, "Application for forest release permit with regard to PP 60/2012", http://bit.ly/1mIFZb0, 4 October 2013.

According to the recent land use designation maps, Bumitama had occupied 9,100 ha (7,300 ha after review by the company) of land without applying for amnesty for these lands under Government Regulation 60. As a result, CRR argued that the company is at risk of having this land revert to the state. It could also face violations of various forestry laws for illegal encroachment into forest reserves. Bumitama has responded to this issue in its review of CRR's draft-report. On PT KMB (1,800 ha) the company claims that PT KMB is excluded from being a forestry area, based on Ministry of Forestry Regulation number 62/2013. According to the company, this regulation recognizes land rights obtained before the land is re-designated into forestry area. However, according to CRR's records, the area was already designated forestland before Bumitama obtained its land rights. On PT WNA, Bumitama states that approximately 1,800 ha has been removed from PT WNA's nucleus planted area, following the issuance of decision letter (SK) 529 in September 2012. The company did not respond explain another 1500 ha reported, so CRR has still marked this land as contested. On PT LGI and PT HPA the company stated that, to its best knowledge, there is no forestland within these plantations.



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Government Regulation 60 (2012) requires the group to identify, acquire and restore uncontested land bank in Kalimantan as compensation for occupying land without the required permits. Assuming that Bumitama Agri's applications for amnesty are processed and approved, the group would have to acquire and reforest 28,900 ha of land in the "Other Land Use" (APL) category in Kalimantan and return this land to the State. For 3,500 ha within the applications the company does not need to offer compensation land, as these are designated as "Convertible Production Forest" (HPK), which are eligible for development.

2.4.2 **Overlap with mining concessions**

Bumitama Agri's land bank overlaps with mining concessions for a total of 29,600 ha. The land banks of its subsidiaries PT Karya Makmur Langgeng (KML; 18,500 ha) and PT Ladang Sawit Mas (LSM; 6,600 ha) within West Kalimantan fully overlap with mining concessions.³⁹

Bumitama Agri's prospectus in 2012 reported that 18,616 ha of land owned and/or controlled by the group were subject to overlapping land use rights (mining concessions) held by group's controlling shareholders, the Hariyanto family.⁴⁰ More recently, on its website, the company reports having 10,000 ha of designated mining areas within its land bank.⁴¹

In its response to the draft-report sent for review by CRR Bumitama stated that, with the exception of PT LSM, all the mining rights are held by Bumitama's controlling shareholders (the Lim Hariyanto family). The 10,000 ha, cited to in its 2012 prospectus, refers to the areas that may have mineral, based on a rough estimate by the company. The area of PT LSM was not included in the prospectus, because the acquisition of PT LSM was after the listing of Bumitama. In the case of PT LSM the mining company is in discussion with Bumitama to compensate for non-mining, according to the response by Bumitama.

Bumitama has not denied having overlaps with mining concessions for a total of 29,600 ha. The overlaps, especially the one on PT LSM, represent potential direct and indirect risks to the group. In Kalimantan, there are thousands of cases of overlapping land rights that need to be resolved by negotiation or through the courts, and these can incur significant costs. For example, in August 2008, coal miner Adaro Energy paid US\$ 60 million to oil palm company Astra Agro Lestari to settle a dispute after the government issued a license authorizing both companies to manage a concession in 1999.⁴²

2.4.3 Illegal harvesting of fresh fruit bunches

Oil palm plantation company PT Gemilang Makmur Subur (GMS, formerly known as PT Golden Youth Plantation Indonesia) was acquired by the Hariyanto family in 2011.⁴³ In April 2012, GMS had 4,310 ha of cultivated oil palm plantations in Ketapang, West Kalimantan. In November 2011, the Hariyanto family entered into a GY Cooperation Agreement with Bumitama Agri. Under the agreement, Bumitama Agri would:

- manage and operate the 4,310 ha of cultivated oil palm of PT GMS in return for a management fee;
- have the exclusive right to purchase any FFB produced from the plantation of PT GMS; and
- have a call option over up to 95% of the total issued shares in PT GMS.⁴⁴

As of May 2014 the Hariyanto family still owned PT GMS.⁴⁵



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Though clearing and planting began in 2004, the plantation has never been legal. Most of the concession area is located on Production Forest, a forestland category that cannot be legally occupied by oil palm companies unless its status is changed by the Ministry of Forestry. GMS never secured a forestland release permit over the land, and no environmental permit was ever issued by the provincial authorities either.

Soon after Indonesia's Spatial Planning Act No. 26/2008 came into force (whose provisions include civil servants' personal liability for issuing permits that violate government spatial and land use planning), the Ketapang district head revised the company's location permit. In June 2009, the concession area was scaled down from 18,300 ha to less than 3,000 ha.⁴⁶ The area remaining within the location permit area would later be transferred to another plantation company, PT SSL, also managed by Bumitama Agri on behalf of third parties until mid-2014.

The 4,300 ha cultivated in the former PT GMS concession area remained without location and environmental permits, but Bumitama Agri nonetheless commenced land development and FFB harvesting. Between 2011 and August 2013, Bumitama Agri cleared some additional 500 ha of land, including a nursery that is not even located within the old boundaries of PT GMS.⁴⁷ In October 2013, the new Ketapang district head withdrew the company's Plantation Business Permit (IUP)⁴⁸, exposing Bumitama to further legal risk. Because of these actions, Bumitama Agri faces potential liability for harvesting palm fruit in violation of Indonesia's Forestry Act, the Environmental Act and the Plantation Act.

Recently, in December 2013, the cultivated area was rezoned as Other Land Use (APL) through Ministry of Forestry decision SK.936/Menhut-II/2013, which in principle enable the company to reapply for the necessary permits.⁴⁹ However, it does not seem likely that the company will try to acquire these plantation and obtain permits to operate it, as on 7 August 2014 Bumitama terminated the GY Cooperation Agreement.⁵⁰ Whilst contract termination may reduce the legal risk, the company could still be held liable for its past operations. Bumitama also recently cancelled its management contract with another company (PT Gunajaya Harapan Lestari) that was linked to the group's senior directors. PT GHL operates on Pulau Bawal, a small island of the coast of Ketapang district.

2.4.4 Contested permits

Bumitama Agri's subsidiary PT Hatiprima Agro in Central Kalimantan (with a land bank of 7,100 ha) is subject to a court case as well as a RSPO complaint. In March 2008, the Ministry of Forestry revoked the forestland release permit for this plantation. However, in 2010 and 2011, PT Hatiprima Agro continued to clear the area, according to an investigation team from the local NGO "Save Our Borneo." The investigation discovered thousands of logged trees in the Bumitama subsidiary concession.⁵¹

In June 2012, the head of the regency of East Kotawaringin revoked PT HPA's location permit. Since then, in local courts, PT Hatiprima Agro successfully challenged the revocation of the forestland release permit and location permit. The State Administrative High Court affirmed the lower court's ruling in May 2013. However, the Indonesian Ministry of Forestry pursued legal action by appeal, and in July 2014 the Supreme Court ruled in its favour. In response to this changing legal course, Bumitama announced that it may file an application for a judicial review with the Supreme Court and an unlawful acts claim against the Head of Kotawaringin Regency. This would however be done as a way to take parallel precautions. Bumitama prioritizes entering into a long term land lease



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agreement with the new license owner(s) of the Land, or a compensation deal with the new owner(s) for its assets located on the Land.⁵² CRR has labelled the entire plantation area as contested land. Moreover, the Indonesian Forum on the Environment (Walhi) has stated that it is preparing a legal claim with regard to the environmental damages caused by PT HPA. The local NGO "Save Our Borneo" recently stated that PT HPA has been clearing the land since 2009/2010 without a valid permit. According to the NGO, the company should immediately pick up and leave without conditions.⁵³

The Indonesian Forum on the Environment (Walhi), the Indonesian branch of Friends of the Earth Indonesia, filed a formal Roundtable on Sustainable Palm Oil (RSPO) complaint against PT Hatiprima Agro on 2 July 2012. In December 2012, the RSPO ordered Bumitama Agri to cease all works in the plantation, pending the resolution of the complaint.⁵⁴ Although orangutan habitat had already been cleared, a significant portion of almost 1,000 ha of natural forest remaining is not yet cleared.⁵⁵

2.4.5 Lack of transparency on legal issues

For the last two years, Bumitama Agri has not provided full transparency about the extent to which its operations are in line with Indonesian laws and regulations. In its prospectus from April 2012, the company made notice of expired Location Permits (*Ijin Lokasi*) for more than 110,000 ha of its land bank, and it described its progress towards obtaining a Right to Exploit (*Hak Guna Usaha*) for these areas. The company also made notice of having only a principle permit (*Ijin Prinsip*, the very first step in land acquisition) for 11,000 ha within its land bank.⁵⁶ Since then, Bumitama Agri has not provided an update in its annual reports and/or through announcements to the Singapore Stock Exchange.

After the publication of its prospectus in April 2012, Bumitama Agri acquired three large plantation subsidiaries: PT Ladang Sawit Mas (LSM), PT Andalan Sukses Makmur (ASMR) and PT Nabatindo Karya Utama (NKU).⁵⁷ On ASMR and NKU information on permits could be found in the RSPO New Planting Procedures (NPP) for these companies. In these documents it could be found that for both areas Bumitama had obtained a Plantation Business Permit (*Izin Usaha Perkebunan*), but apparently not yet a Right to Exploit (*Hak Guna Usaha*).⁵⁸ On PT LSM, Bumitama did not provide any information on the legal status, only the notion that the NPP for PT LSM is scheduled to be submitted in September 2014.

2.5 Social issues

2.5.1 Land disputes with local communities

Like many palm oil companies, Bumitama faces a number of disputes with local communities. As in other cases, a failure to resolve these disputes to the satisfaction of all parties could prevent Bumitama from developing its land, or face sanction by its customers, the Roundtable on Sustainable Palm Oil, or government authorities.

In February 2014, members of the smallholders' cooperative Harapan Abadi threatened to occupy 3,500 ha of land. Bumitama Agri's subsidiary PT Windu Nabatindo Lestari (WNL) was accused of embezzling funds (IDR 7 billion) that should have been paid to the plasma farmers.⁵⁹ In May 2014 the government of East Kotawaringin, Central Kalimantan, promised to resolve the dispute.⁶⁰ Bumitama, in its response to the draft-report by CRR, denies that it has embezzled funds from the cooperative. According to the company, PT WNL has temporarily placed the incentive payment for one sub-cooperative under a special account, with the consent of the regional government.



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Other sub-cooperatives continue to receive the incentive payment from PT WNL. Bumitama states that it is waiting for the conclusive resolution of an on-going legal battle over alleged fraudulent act between a former chairman of a sub-unit of the cooperative and the members of the cooperative. CRR mentions that, in its response, Bumitama has not made explicitly clear why the members of the sub-cooperative have to bear the load of waiting for their incentive payment.

- On 10 May 2014, hundreds of farmers from three villages commenced blocking road access and reclaiming 3,000 ha of village land that was planted by Bumitama Agri's subsidiary PT Bumitama Gunajaya Abadi (BGA) in Kotawaringin Lama sub-district, Central Kalimantan. According to media reports, their protest was triggered by frustrations that the company had not yet released smallholder lots to 1,500 families. Each family was supposed to receive two hectares each in early 2013, but at the time of the demonstration no clarification had been given why the transfer had not happened. Another motivation for the land reclaiming action is alleged backlog in payment of crop sharing revenue over the same period.⁶¹ The company has disputed the charges, and said that under the agreements made it has significant time to resolve these issues.⁶² In its response to the draft-report of CRR, Bumitama states that PT BGA has developed a smallholder scheme for five villages in the area and will continue to work with the other villages. According to the company, one village is objecting to the boundaries chosen and this boundary problem is influencing neighbouring villages. The local government is presently facilitating an agreement in this matter, according to Bumitama, while also stating that, once the consensus has been reached, PT BGA will extend the smallholder scheme to the other villages.
- In August 2013 a local community harvested 410 ha of planted oil palm within Bumitama Agri's subsidiary PT Hatiprima Agro (HPA) alleging that the land belonged to the community and that the company's permits were revoked.⁶³ In its response to the draft-report of CRR, Bumitama states that PT HPA has been compensated for the land. However, it was discovered later that there were double claims over the possession of traditional land rights. This has created legal confusion over the rightful owner. The local government has been facilitating the dispute with the local businessman who also claims the land, and both parties are currently looking for a resolution on this issue, according to the company.
- While none of these issues are on their own likely to threaten Bumitama's relationship with its customers, as a group the company would need to continuously demonstrate to its customers that it is sincerely working to comply with the "No Exploitation" provisions of their sourcing policies.

2.5.2 Smallholders

Overall, 23% of Bumitama Agri's total planted area is allocated to smallholders. Bumitama thereby scores well compared to other oil palm plantation companies such as First Resources (11.1%) and Kencana Agri (21.1%).⁶⁴ According to the company its plasma programme has benefited the lives of roughly over 68,000 individuals in 2013, developing an area of 34,731 ha.⁶⁵

In its response to the CRR draft-report, Bumitama mentions that its 23% is higher than the 20% required by the Indonesian regulation. However, in contrast to earlier regulations, a new regulation (Ministry of Agriculture Regulation Nr. 98/2013) obliges companies to develop smallholder lots (*plasma*) outside the company lease area (*inti*).⁶⁶ It is not clear to what extent Bumitama Agri is living up with this new Indonesian regulation, which, as a matter of fact, has the potential to trigger forest



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encroachment and conflict with other local communities.

2.6 Governance issues

There is little independence between the top management and the controlling shareholders of Bumitama Agri, as both are dominated by the same families. The various relationships and transactions between Bumitama Agri and its two controlling shareholders - the Hariyanto family and the Lee family - therefore raise questions with respect to the interests of the other shareholders and creditors. Apart from their controlling share, the Hariyanto family also has other business relationships with Bumitama Agri.⁶⁷

- Two plantation companies in West Kalimantan which are managed by Bumitama Agri PT Gemilang Makmur Subur and PT Gunajaya Harapan Lestari - are not owned by Bumitama Agri itself but by the Hariyanto family. Bumitama Agri has provided a loan to the latter company. ⁶⁸ As of August 2014 Bumitama has terminated the corporation agreements with the Hariyanto family for these plantation companies.⁶⁹
- Bumitama Agri hires offices, vessels and tugboats from companies owned by the Hariyanto family.⁷⁰

Bumitama has responded to this statement in the CRR draft-report, by giving attention to the requirements the Singapore Stock Exchange has requested for Bumitama's listing in Singapore:

- An independent director to chair the 4 committees (Audit Committee, Remuneration Committee, Nominating Committee and Conflicts Resolution Committee);
- Formation of an additional committee called the Conflict Resolution Committee.

Bumitama also added that more than half of its board comprises of independent Directors. Furthermore, all interested person transactions must be covered by shareholder mandates, or must comply with an established procedure to ensure that interested person transactions are conducted on arms' length basis and on normal commercial terms.

The escalation of various contested land cases in 2013 have led the group's management to strengthen its sustainability department with greater mandate, resources and human resources. Consequently, "stop work" orders issued by external parties (e.g. RSPO) and company management issued to various group subsidiaries appear to have been upheld from May 2014 onward whilst the extended sustainability team works to address the concerns for each subsidiary in order to resolve non-compliance with legal, voluntary and market standards. The group currently retains commitment to the RSPO Principles and Criteria, but commenced trials to explore the viability of adopting a 'deforestation and peatland free' policy. It is understood that the company intends to release a revised sustainability group policy by the end of 2014.

2.7 RSPO certification

Bumitama Agri's subsidiary Bumitama Gunajaya Agro, under which most subsidiaries of Bumitama Agri reside, has been a member of the Roundtable for Sustainable Palm Oil (RSPO) since October 2007.⁷¹ Bumitama Agri as a single group was only registered as an RSPO member in November 2013.⁷² In its response to the CRR draft-report Bumitama highlighted this step as a "bold move". Indeed the previous situation allowed for new subsidiaries to fall under an investment company that



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was no member of the RSPO. Now New Planting assessments have to made for every subsidiary that wants to plant oil palm, and new subsidiaries may be subject to RSPO-complaints, comments on New Planting Procedure documents, stop-work orders etc.

Bumitama Agri has been slow in achieving RSPO certification for its subsidiaries. Two of Bumitama's mills in Central Kalimantan received their RSPO certificate in June & July 2014 for the annual volume of Crude Palm Oil & Palm Kernel produced of 177,000 tonnes covering a total hectares of 26,600 ha.⁷³ Certification assessments for these two mills and their supply base, the plantations managed by PT Windu Nabatindo Lestari and PT Karya Makmur Bahagia, commenced in January 2014.⁷⁴ The certifications comprised the nucleus parts only, not yet the smallholder parts. As a RSPO member, Bumitama Agri now commits to ensure that all plantation subsidiaries and CPO mills will be fully compliant with the RSPO Principles and Criteria. The company published time bound plans to achieve certification before 2020 for seven subsidiaries (see Table 7). However, for 11 of its subsidiaries, no such plans have been published to date.⁷⁵

In the last two years, civil society organizations filed no less than four RSPO complaints against Bumitama Agri.⁷⁶ Initially, RSPO was slow to respond to the grievances and accepted company management commitments to halt land development in disputed areas. The company was later found to have broken these commitments.⁷⁷ Presently, after many investigations, some establishments of conservation areas and a lot of engagement with stakeholders, the company is gradually getting out of the complaints zone. According to Bumitama's response (dated 4 September 2014) on the CRR draft-report, the complaint on PT LSM is out of the Complaint Panel (now in the monitoring stage), the complaints on PT NKU and PT ASMR are earmarked to be out of the Complaints Panel in September/October 2014. The complaint on PT HPA is still in the Complaints Panel.

Bumitama Agri so far published New Planting Procedure-notifications on seven plantation subsidiaries in Kalimantan for public consultation.⁷⁸ Comments were submitted on three of these, which required the company to address these comments before (re) commencing land development. The development of PT KML in West Kalimantan was stalled when a stakeholder filed a comment on the New Planting Procedure (NPP) report for notification on the RSPO website in December 2013. RSPO's procedures require companies to ensure that stakeholder concerns are duly addressed before land clearing (re)commences. On 11 September 2014, RSPO stated in writing that satisfactory measures were taken and that it was agreeable to lift the 'stop work order' was lifted on the condition of filing quarterly progress reports until the completion of action plans.⁷⁹

On 12 September 2014, Bumitama announced that for five of seven plantation subsidiaries it will set aside HCV and HCS (High Carbon Stock) areas of 13,148 ha (23.8%) for conservation and will work closely with the community and other stakeholders in the development of the potential development area.⁸⁰

2018

2014/2020

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yes

ves

yes

yes

yes

yes

yes

Time bound **New Planting** plan to RSPO-**Plantation subsidiary** Location Procedureachieve complaint? notification? certification PT Agro Manunggal Sawitindo West Kalimantan PT Agro Sejahtera Manunggal West Kalimantan PT Andalan Sukses Makmur Central Kalimantan ves PT Bumitama Gunajaya Abadi Central Kalimantan 2020 PT Gunajaya Karya Gemilang West Kalimantan 2016 PT Gunajaya Ketapang Sentosa West Kalimantan 2016 PT Hatiprima Agro Central Kalimantan yes PT Karya Bakti Agro Sejahtera West Kalimantan PT Karya Makmur Bahagia Central Kalimantan 2014/2020 PT Karya Makmur Langgeng West Kalimantan PT Ladang Sawit Mas West Kalimantan yes PT Lestari Gemilang Intisawit West Kalimantan PT Masuba Citra Mandiri 2020 Riau PT Nabatindo Karya Utama Central Kalimantan yes PT Tanah Tani Lestari Central Kalimantan

Table 7 Bumitama Agri's progress on RSPO-certification per plantation subsidiary

In its annual report 2013, Bumitama Agri acknowledged "the compliance gap identified due to some complaints directed at our new acquisitions with regard to the RSPO New Planting procedures."⁸¹ In April 2014, the company management issued an instruction to halt land clearing in Karya Makmur Langgeng, and commissioned studies to identify non-contested land that can be developed.

Central Kalimantan

Central Kalimantan

Central Kalimantan

PT Windu Nabatindo Abadi

PT Windu Nabatindo Lestari

PT Windu Nabatindo Sejahtera

As becomes apparent from Table 7, Bumitama Agri still faces a considerable challenge to ensure that all estate subsidiaries within the group are on track with RSPO certification. And unfortunately, RSPO certification is not a watertight guarantee that land contestation is duly addressed. Upon the closing of the revision of its Principles and Criteria early 2013, the RSPO membership had failed to agree on tighter rules to put an end to deforestation and peatland development. Furthermore, many HCV studies conducted by RSPO accredited assessors have been criticized for lacking credibility, partially because RSPO's procedures do not stipulate at what point an HCV map cannot be subjected to further adjustment.

In the case of Bumitama Agri's subsidiary Ladang Sawit Mas, these weaknesses came at great expense to the company as its assessor produced no less than three different versions of the HCV map for the concession area, adjusting the map for previously identified HCV sites that had been cleared in the meantime (see Figure 8). While such practices by HCV assessors result in a larger acreage of productive land bank, they represent significant reputational risk to the company as



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stakeholders may insist that cleared sites previously identified as HCV are restored or compensated for.

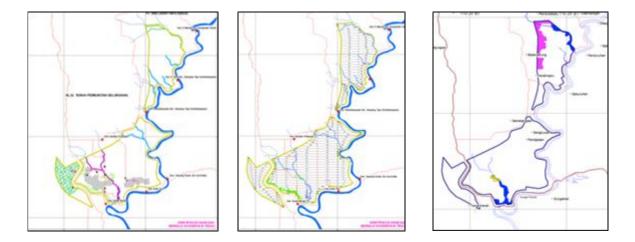


Figure 8 PT Ladang Sawit Mas's HCV maps, April-December 2013

As a result of RSPO's failure to zero-out its members' exposure to public concerns over deforestation and climate change, 2013 has seen a strong proliferation of palm oil purchasing policies in the market place that set tighter standards that their suppliers must adhere to. Starting with Golden Agri-Resources' *Forest Conservation Policy (FCP)* of February 2011, such policies are no longer exclusively adopted by retailers and manufacturers in final consumer markets. In December 2013, Wilmar International adopted its ambitious "No Deforestation, No Peatland, No Exploitation" policy that applies not only to the group's own estates, but also to all its Third Party Suppliers.⁸² In February 2014, Golden Agri-Resources announced its intention to apply its FCP to its Third Party Suppliers as well.⁸³ GAR has focused a significant portion of its third party compliance efforts on Bumitama.

As Bumitama Agri is highly dependent on these two customers (see Table 5), the company is exposed to significant risk of losing one or both of its most important buyers if it is found to continue clearing of mature and maturing tropical forests and peatlands. In response, Bumitama Agri currently works on a strategy to first ensure full compliance with RSPO's policies, and trialling more restrictive approaches in a pilot site where land clearing was previously scheduled to be completed in the course of 2014-15.

2.8 Bumitama's contested land

Contested land is defined by CRR as planted and plantable acreage where the plantation company may not be able to retain or develop land because of a variety of factors, including legal prohibitions on land development, voluntary conservation commitments by the company, its customers, or investors, overlapping concessions, or community claims on land.

Since it engaged in the palm oil industry in 1998, Bumitama has accumulated a land bank that has been increasingly exposed to dispute. Contestation over land and sustainability often remains hidden to the analyst community but are often brought out in the open by civil society organizations. In many respects, 2013 was the group's "wake up call" when it became the target of campaigns by a wide array of NGO campaigns, making Bumitama a greater target for NGO campaigns than any other palm oil producer without major trading operations. In addition to government investigations and



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litigations related to land, Bumitama had to answer to several formal RSPO complaints filed by its stakeholders and was confronted with new "No Deforestation" requirements from its main customer, Wilmar (followed soon thereafter in 2014 by similar requirements imposed by GAR). Bumitama's management struggled to effectively respond to these pressures. Management initially attempted to address concerns case by case, and ultimately decided to register the whole company group as a full member of RSPO.

Chain Reaction Research's methodology aims to quantify contested land at group level by identifying land that is subject to actual and/or potential contestation. The analysis is conducted at estate level and extrapolated to the company group. In the case of Bumitama, CRR assessed 16 out of the group's currently held 18 plantation companies, all in West and Central Kalimantan. Plantation companies in which Bumitama holds a minority stake and companies managed on behalf of third parties were not included in the calculations, but were considered in the qualitative analysis. Adjustments were made to previous assessments, based on new developments and the company's comments to a final draft of the Sustainability Risk Assessment.

Based on CRR's analysis of the subsidiaries studied, 41% of Bumitama's land bank remains contested; a near equal portion (46%) is not contested but also not yet certified as sustainable. The group succeeded in obtaining its first two full RSPO-certifications for two CPO-mills and its corporate supply base, but not yet its smallholder supply (see section 2.8).

Category contested land	Subcategory contested land	Hectares	%
	Land bank without forestland release permit	39,700	
Compliance with applicable laws and regulations	Overlap with mining concessions	29,600	
	Contested permits	7,100	
Deforestation 2010 - 2013		20,600	
Land disputes with communities		7,000	
Undeveloped land bank conservation unclear	Orangutan habitat; forested areas	5,800	
Correction double-counting		(26,400)	
Contested land within land bank		83,400	41%
Non-certified, not contested		94,052	46%
RSPO-certified, not contested		26,600	13%
Total land bank		204,052	100%

Table 8 Contested land within Bumitama Agri's land bank



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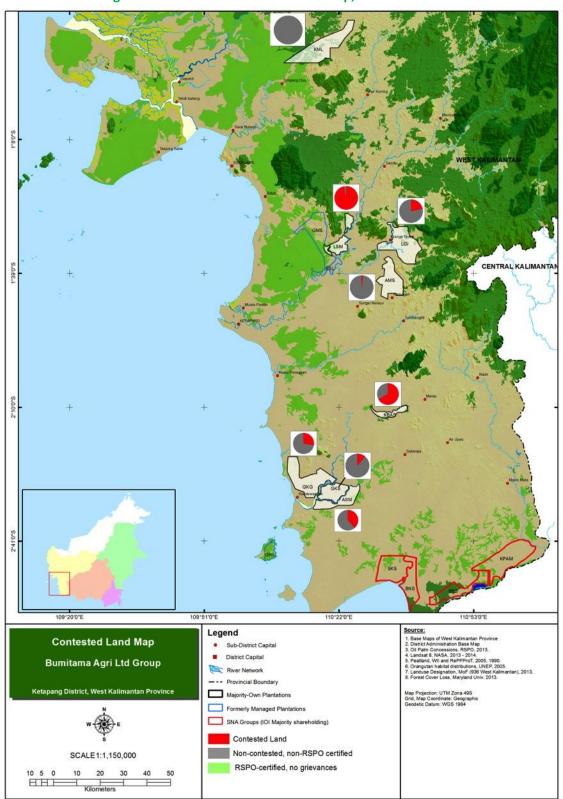


Figure 1 Bumitama's contested land map, West Kalimantan



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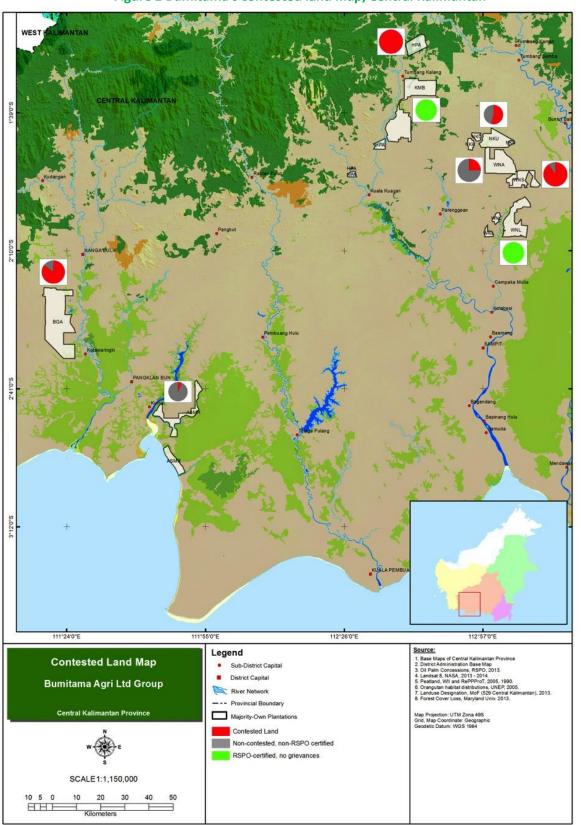


Figure 2 Bumitama's contested land map, Central Kalimantan

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2.9 Spill-over risks for IOI Corporation

Many of the risks facing Bumitama are likely to spill-over to its part-owners at IOI Corporation. Apart from IOI Corporation's share in Bumitama Agri, there are other links between the two companies as well:

- IOI Corporation and Bumitama Agri share the ownership of PT Berkat Agro Sawitindo and PT Sawit Nabati Agro, two holding companies which together own five oil palm plantations with a total land bank of 58,000 ha, all within the Ketapang district of West Kalimantan.⁸⁴ According to IOI, the estimated plantable land amounts to 47,000 ha, of which 12,000 ha were planted up as of November 2013.⁸⁵ IOI owns a 67% stake in these companies (through its vehicle Oleander Capital Resources), and Bumitama Agri owns a 28% stake. Bumitama Agri is not involved in the management of these plantation companies.⁸⁶
- IOI Corporation's Chief Executive Officer, Lee Yeow Chor, holds a position on Bumitama Agri's Board of Directors.⁸⁷
- The companies share their knowledge on operational practices.⁸⁸

IOI, through its subsidiary IOI Loders Croklaan, is one of the leading palm oil processors and sellers in Europe and North America. Although IOI Loders Croklaan reports that it does not directly source palm oil for Western markets from Bumitama, consumer companies are increasingly scrutinizing the activities of their suppliers whole business operations, regardless of where a particular physical commodity is sourced from. As a result, IOI Loders Croklaan is particularly exposed to risk that major consumer companies in developed countries will cut off purchases of palm oil due to the parent company's involvement in Bumitama. In addition, environmental performance at IOI's joint ventures with Bumitama has recently had more serious issues than even Bumitama's own land, and faced even more scrutiny. For instance, on the IOI/Bumitama joint venture Bumi Sawit Sejahtera (BSS) has 1,047 hectares of peatlands, nearly 711 hectares of which are protected under Indonesian law.⁸⁹ Though IOI committed to stop conversion on these lands, remote sensing and field visits in 2014 show recent deforestation on peat and in orangutan habitat. IOI Loders Croklaan has additional sustainability risk issues in other parts of its operations, but its partial ownership of Bumitama and the major issues on its joint venture operations significantly increase its own risk of losing market access and investors.



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3 Financial analysis

3.1 Income and costs

Key income indicators for Bumitama Agri in 2012 and 2013 are provided in Table 9.

Figures in USD million	FY2012	FY2013	Change
Revenues	376.0	392.2	4.3%
EBITDA	137.0	141.7	3.4%
Net profit	96.2	94.8	-1.4%
Net income for shareholders	84.0	82.6	-1.7%

Table 9 Bumitama Agri: Income indicators, 2012-2013

Source: Bumitama Agri, "Annual Report 2013"; (after conversion)

Bumitama Agri's revenues increased from USD 376.0 million in 2012 to USD 392.2 million in 2013. This increase is primarily due to a higher CPO production volume (13.1% up in comparison to 2012). Volume growth was higher than the growth of revenues, though, as CPO and palm kernel prices dropped and the Indonesian rupiah depreciated against the US dollar.

EBITDA increased 3.4%. Net income (net profit attributable to shareholders) showed a 8.6% growth in rupiahs, but dropped 1.7% in US dollars. Profits are influenced negatively by the company's dependence on FFB sourced from external suppliers. Of the total FFB volumes processed by Bumitama Agri in 2013, 23% was sourced from (plasma) smallholders and 28% from other external suppliers - together accounting for 63% of total FFB sourcing costs.⁹⁰ Table 10 provides an overview of the cost structure of Bumitama Agri in the past two years.

Cost category	% of total costs 2012	% of total costs 2013
FFB production	31%	30%
FFB procurement from external suppliers	54%	53%
CPO milling costs	5%	5%
Transport and freight costs	3%	4%
Salaries and other general costs	7%	5%
Financing costs	5%	2%
Other costs	-4%	1%

Table 10Cost structure of Bumitama Agri, 2012-2013

Source: Bumitama Agri Annual Report 2013, p. 89-90.

FFB sourcing costs account for the largest share of total costs due to the high costs of fertilising and harvesting. For Bumitama Agri, FFB sourcing costs accounting for 83-85% of total costs, as shown in Table 10. When a larger part of Bumitama Agri's own plantations reaches maturity in the coming years, its procurement of - more expensive - FFB from external suppliers might go down. But at the same time Bumitama Agri is increasing its FFB processing capacity to 4.0 million tonnes in 2014, while

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it only produced 1.6 million tons itself in 2013. The result of both developments might be that external FFB procurement stays more or less at the same level.

However, Bumitama Agri's high dependence on external FFB suppliers does have the advantage that a large share of its production costs is variable. Given that palm oil companies are price takers and depend on commodity market prices, it is common practice that contracts with external FFB suppliers (accounting for 28% of all FFB processed by Bumitama Agri) are flexible and can be adjusted to demand.

3.2 Market capitalization and balance sheet

3.2.1 Key indicators

Table 11 gives an overview of the development of Bumitama Agri's market capitalization and the main balance sheet categories in the past two years.

Indicator	FY2012 (USD million)	FY2013 (USD million)	Change
Market capitalization	1,518	1,309	-13.8%
Cash & equivalents	92.0	39.6	-57.0%
Total Assets	943.4	973.2	3.2%
Total Liabilities	394.7	468.6	18.7%
Shareholders' equity	507.4	462.6	-8.8%

Table 11 Bumitama Agri: Market capitalization and balance sheet

Source: Bumitama Agri, "Annual Report 2013" and Bloomberg data March 2014.

Bumitama Agri's market capitalization decreased by 13.8% from 2012 to 2013, because the company's share price is highly correlated with the share prices of other oil palm companies and with CPO price developments. As of July 2014, market capitalization has recovered to USD 1,783 million, supported by the recovery of spot commodity palm oil prices.

The company's assets have increased 30.3% in rupiahs and 3.2% in US dollars in the last year, primarily due to an appreciated value of biological assets (planted oil palm trees), investments in two new CPO mills and the depreciation of the rupiah. As a result of increased investments, repayments of loans and dividend payments, Bumitama Agri's cash position has decreased 57.0%. In 2014 Bumitama Agri is planning to invest IDR 2 trillion (USD 164 million), of which 35% will be allocated to new plantings, 60% to new CPO mills and 5% to land certification.⁹¹

Liabilities increased with 18.7% due to an additional revolving credit facility and a term loan facility draw-down in 2013. In Indonesia rupiahs, shareholders' equity increased with 15.2%, but due to the depreciation of the rupiah a decrease (-8.8%) was recorded in US dollars. The capital structure is still conservative as the company is only for 48% financed by debt.⁹²

3.2.2 Break-down of equity and liabilities

At the end of December 2013, Bumitama Agri owned assets with a total value of IDR 11.84 billion (US\$ 970 million). These assets were financed by the equity and liabilities provided by the groups of financial stakeholders identified in Table 12.⁹³



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Table 12 Bumitama Agri: break-down of equity and liabilities, end of 2013

Financial stakeholders	Value of equity and liabilities (USD mln)	% of total
Shareholders	461.0	48%
Joint-venture partners	41.8	4%
Banks	339.4	35%
Bondholders	0.0	0%
Others	127.7	13%
Total equity & liabilities	970.0	100%

Shareholders and banks are the most important financial stakeholders of Bumitama Agri, financing 48% respectively 35% of its total equity plus liabilities. Table 13 presents an overview of the banks that provided loans to Bumitama Agri in the past five years and underwrote its IPO in April 2012.

Bank	Country of origin	Underwriting (USD mln)	Loans (USD mln)	
Bank Mandiri	Indonesia		254	
CIMB	Malaysia		43	
DBS	Singapore	88	281	
HSBC	United Kingdom	88	238	
Mitsubishi UFJ Financial	Japan		64	
Oversea-Chinese Banking Corporation	Singapore		69	
Rabobank	Netherlands		82	
Standard Chartered	United Kingdom		18	
Sumitomo Mitsui Financial	Japan		64	
United Overseas Bank	Singapore		99	
Total		177	1,213	

Table 13Banks financing Bumitama Agri (2009-2014)

Source: Bloomberg Database, "Corporates by ticker", viewed in June 2014; ThomsonONE Banker, "Loans and issuances", viewed in June 2014; Bumitama Agri, "Prospectus", Bumitama Agri, April 2012

In early 2014, Bumitama Agri launched an Islamic Medium term notes program in Malaysia, with a total size of MYR 2 billion (USD 602.9 million). The Islamic notes received a rating of AA3 with stable outlook from RAM Ratings Services Bhd.⁹⁴ Net proceeds raised will be used for capital expenditures, working capital, investments, refinancing of existing debt and general corporate purposes. The first issuance with a value of MYR 500 million (USD 150.7 million) was completed in March 2014, with a tenure of five years and an interest rate of 5.25%.



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3.3 Financial ratios

3.3.1 *Profitability ratios*

Table 14 gives an overview of Bumitama Agri's profitability ratios of over the past three years, based on the original rupiah figures.ⁱ

Even though Bumitama Agri's profitability ratios have decreased over the past three years, they remain strong. Especially the Return on Equity (15.2%) and the Net income margin (21.1%) are high. The decrease of profitability ratios can be explained by weaker CPO prices observed for the same period.

Table 14	Bumitama Agri: Profitability ratios			
Ratio	FY2011	FY2012	FY2013	
Gross profit margin %	44.2	40.4	39.4	
EBITDA margin %	40.4	36.5	36.1	
Net profit margin	31.8	25.6	24.2	
Net income margin %	27.2	22.3	21.1	
Return on assets (ROA) %	11.7	8.7	7.2	
Return on equity (ROE) %	28.4	16.1	15.2	

Source: Bumitama Agri, "Annual Report 2013".

3.3.2 Leverage and coverage ratios

Table 15 provides an overview of the leverage and coverage ratios of Bumitama Agri in the past three years.

Table 15Bumitama Agri: Leverage and coverage ratios

Ratio	FY2011	FY2012	FY2013
Current ratio (current assets / current liabilities)	0.5	1.5	0.9
Quick ratio (current assets - inventories / current liabilities)	0.3	1.2	0.6
Interest coverage ratio (EBIT / interest)	4.1	5.8	6.9
Debt ratio (liabilities / equity + liabilities)	0.6	0.4	0.5
Debt-equity ratio (liabilities / equity)	1.2	0.7	0.9

Source: Bumitama Agri, "Annual Report 2013"; Bloomberg data, viewed in July 2014.

ⁱ These ratios may differ when the financial data are first converted in US dollars, as different exchange rates will be used. Balance sheet data are converted into US dollars using the December 31 exchange rate, while income statement data are converted by using the average exchange rate over the year. For ratios which compare income data with balance sheet data (ROA and ROE), these different exchange rates can influence the ratios.



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Development of the liquidity ratios (current and quick ratios) show that the company has an adequate management of working capital and is able to pay short term obligations. Interest coverage (or EBIT to interest) has increased and remains healthy at 6.9, which is positive for creditors.

Although Bumitama Agri had 60% more bank loans on its balance sheet in 2013, the increase in leverage has been moderate: the debt ratio stands at a modest 0.5, while the debt-equity ratio is still only 0.9. This means the company is financed conservatively and has a sound credit profile.

3.3.3 Valuation ratios

Table 4C

Table 16 provides an overview of the valuation ratios of the Bumitama Agri share in the past two years. Its valuation ratios have substantially increased for the company, despite weaker CPO prices in the past two years, with a Price / Earnings ratio of 22.1 and an Enterprise Value / EBIT ratio of 17.0.

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Table 16 Bumitama Agri: Valuation ratio			
Valuation ratio	FY2012	FY2013	
Price / Earnings	14.0	22.1	
Enterprise Value / EBIT	13.9	17.0	
Price / Sales	3.1	4.0	
Price / Book value	3.0	2.8	
Dividend yield	0.0	0.8	

Source: Bumitama Agri Annual Report 2013 and Bloomberg data March 2014.

3.3.4 *Comparison with peers*

Table 17 compares some profitability and valuation ratios of Bumitama Agri with those of other major palm oil companies.

	Table 17	Bumitama Agri compared to peers				
Company	Market Capitalization (USD million)	Return on Assets %	Return on Equity%	Price/Earnings	Price/Sales	Profit margin %
Bumitama Agri	1,442	8.2	16.3	19.9	4.0	20.3
Astra Agro Lestari	3,866	13.2	19.0	24.4	3.5	14.2
Felda Global Ventures	5,120	5.3	15.5	17.1	1.3	7.8
Genting Plantations	2,520	4.8	6.7	36.3	6.0	16.5
Golden Agri-Resources	5,925	2.3	3.6	19.2	0.9	4.7
IOI Corporation	9,085	8.1	15.2	18.5	2.4	13.2
Kuala Lumpur Kepong	7,727	8.4	13.2	26.7	2.7	10.2
Wilmar International	17,770	3.0	9.0	13.5	0.4	3.0

Source: Calculations by Bloomberg, March 2014. IOI figures based on latest 2Q14 results. Ratios

are calculated by using figures in US dollars, which can give slightly different results when

compared to previous tables.

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Compared to the market capitalization of other palm oil companies included in Table 17, Bumitama Agri is relatively small. However, Bumitama Agri's net profit margin is the highest among its peers (20.3%). It also offers relatively high returns on assets (8.2%) and on equity (16.3%).

Valuation ratios show a mixed picture: its Price / Earnings ratio of 19.9 is cheap in comparison to its peers, but the Price to Sales ratio (4.0) is relatively high. This can be explained by the perceived attractiveness of the young maturity profile of Bumitama Agri's plantations which means that yields and production volumes are expected to go up in the medium-long term.

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4 Financial Risk Assessment (FRA)

4.1 Objective and approach

This section discusses the financial risks of five possible scenarios that could be created by the sustainability risks identified previously in section 2.

For this assessment, we developed a financial model based on Bumitama's most recent financial statements and Bloomberg estimates on future earnings. Using this model we assess a baseline scenario in which sustainability issues have no impact, and five alternate scenarios that evaluate the impact of the sustainability issues outlined in this report. We analyse the impacts of each scenario on key financial indicators such as ROE, ROA, leverage and profit margins.

Apart from the baseline scenario, the following five alternative scenarios were identified:

- Bumitama Agri loses its main customer Wilmar;
- Bumitama Agri legalizes its occupation of forestland estate;
- Bumitama Agri pays to compensate for RSPO non-compliance;
- Bumitama Agri loses part of its land bank;
- Bumitama Agri faces difficulties to (re)finance debt.

For comparative purposes, each of these scenarios is assumed to occur at the beginning of 2015. To assess the financial impacts of these scenarios in 2015 and 2016, they are compared with the baseline scenario. Section 4.2 provides an overview of the baseline scenario and the assumptions used, while the following sections give an overview of the five alternative scenarios.

4.2 Baseline scenario

The below table gives an overview of Bumitama Agri's main financial indicators for 2012 and 2013, as well as the estimated development of these indicators in the period 2014-2016. These estimates are based largely on analyst consensus estimates as published by Bloomberg, with some additional estimates from our side. The baseline scenario assumes a business-as-usual development for Bumitama Agri, in which the sustainability issues as discussed in section 2 do not have a significant impact on its financial results.

The following general assumptions are applicable for the baseline scenario. They also apply to the four alternative scenarios, unless stated otherwise in the description of these scenarios:

- The cost structure of Bumitama Agri basically stays the same as described in Table 10, with the share of its own FFB production gradually increasing;
- Weather impacts are negligible;
- Exchange rates stay stable;
- CPO prices stay stable;
- The regulatory environment in which the company operates does not change considerably;
- Corporate tax rates remain unchanged at an average of 22.5% for Bumitama Agri;
- Revenue growth follows Bloomberg estimates;
- Minority interests account for 12.5% of net profit, of which 80% is retained on the balance sheet;



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- When net income is positive, dividends equal 20% of net income. The other 80% is added as retained earnings to the company's equity;
- The company does not issue new shares;
- Fixed assets follow historical growth of 12% per year;
- Investments are depreciated at constant rates;
- Current liabilities follow historical growth of 6% per year;
- Long term debt increases with US\$ 50 million each year (Islamic bonds loan repayments).

Based on these assumptions and Bloomberg estimates, the below table shows the baseline scenario for Bumitama Agri's key financial indicators in the period 2012-2016.

Indicator	Unit	FY2012	FY2013	FY2014	FY2015	FY2016	
Revenues	USD million	376.0	392.1	454.6	531.7	606.6	
Net income	USD million	84.0	82.6	90.7	109.7	132.7	
Net income margin	%	22.3	21.1	20.0	20.6	21.9	
Return on Assets	%	8.9	8.5	8.1	8.6	9.1	
Return on Equity	%	16.6	17.9	17.0	17.6	18.2	
Debt-equity ratio		0.72	0.93	0.90	0.85	0.79	

Table 18Bumitama Agri: Baseline scenario for 2012-2016

These results show that in the baseline scenario both the revenues and the net income (profit attributable to the company's shareholders) show a clear rising trend. The net income margin stays fairly constant at a high level of 20-22%. Return on Assets also stays constant, at around 8-9%, while Return on Equity gradually improves, to 18.2% in 2016. The leverage (debt-equity ratio), which showed some increase in 2013, will drop after that to a very healthy 0.79% in 2016.

However, Bumitama Agri's positive financial development in the baseline scenario is assumed without considering the potential financial impacts of sustainability risks. The following sections will describe five alternative scenarios, indicating how Bumitama Agri's financial indicators might be impacted by the sustainability issues described in section 2.

4.3 Scenario 1: Bumitama Agri loses its main customer Wilmar

As discussed earlier, Bumitama Agri is at risk of losing its two major customers, Wilmar International and Golden Agri-Resources, because of violations of those companies' "No Deforestation, No Peat, No Exploitation" forest conservation policies.⁹⁵ Given Wilmar and GAR's efforts to only source responsible palm oil, the policies of major consumer companies (like Kellogg, Mars, Johnson & Johnson and many others), increased investor attention to sustainability issues, and public opinion following Wilmar International's action, it is reasonable to anticipate that Wilmar and/or GAR would at some point decide to stop purchases from Bumitama Agri if the company does not rapidly and fully address the sustainability issues outlined. This scenario looks only at the potential impact of Wilmar suspending purchases as an illustrative case. However, GAR has been equally involved in working to secure improvements from Bumitama, and equally exposed to customer and NGO pressure on the issue, and we believe that if Wilmar were to suspend purchases, it is highly likely that GAR would as well, magnifying the impacts detailed below.

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In 2012, Wilmar accounted for 61% of Bumitama Agri's total sales (see section 1.4). If Wilmar International cancelled its purchasing contracts by January 1 of 2015, we assume that alternative buyers could not be found very rapidly. This is because in different areas where the company operates, it is difficult to find another refiner with the necessary infrastructure to accept such large volumes of crude palm oil. We assume that other customers could take over 20% of Wilmar's purchases in 2015 and 40% in 2016. As this would still leave the company with a substantial FFB surplus, two main options are likely available to the company to respond:

- Option 1a: Bumitama Agri could respond by cancelling contracts with its third-party FFB suppliers to reduce expenditures in response to reduced demand. In 2013, third-party supplies accounted for 28% of the volume of FFB processed and 35% of FFB procurement costs of Bumitama Agri. Given the flexible contracts with suppliers under which palm oil companies operate, this is a realistic scenario;
- Option 1b: If Bumitama Agri would not be able or willing to cancel contracts with its external palm fruit (Fresh Fruit Bunch or FFB) suppliers, this would probably mean that the company would have to leave some of its own FFB unharvested at the trees. This is a common practice among palm oil companies. Costs of cleaning and disposal not-harvested FFB are similar to costs of harvesting. Typically, inventory capacity of crude palm oil is around one month of production, which prohibits extensive storage of Crude Palm Oil.

Table 19 gives an estimate for the development of Bumitama Agri's key financial indicators in the period 2012-2016 for both options.

Indicator	Unit	FY2012	FY2013	FY2014	FY2015	FY2016
Revenues	USD million	376.0	392.1	454.6	255.2	339.7
Net income	USD million	84.0	82.6	90.7	-14.9	26.0
Net income margin	%	22.3	21.1	20.0	-5.9	7.7
Return on Assets	%	8.9	8.5	8.1	-1.3	2.1
Return on Equity	%	16.6	17.9	17.0	-2.9	4.8
Debt-equity ratio		0.78	1.01	0.98	1.12	1.19

Table 19Scenario 1a: Bumitama Agri cancels contracts with FFB suppliers beginning 2015

As Table 19 shows, revenues would drop significantly if Wilmar International cancels its purchasing contracts by January 1, 2015, with net income declining from 90.7 million to negative territory, a loss of \$105.4 million. We anticipate that Bumitama would be able to make up for some of the lost market in 2016, but net income would still lag USD 64 million behind projected FY 2014 levels. These scenarios account for Bumitama Agri's ability to adjust to reduced demand by cancelling its supply contracts with external palm suppliers.

Other operating expenses would be less variable, but would nevertheless decrease somewhat as well. Financing and depreciation costs would stay fixed. Overall, the company would incur a net loss of USD 14.9 million in 2015, recovering to a small, but positive, net income of USD 26.0 million in 2016. As a consequence the net income margin would be negative in 2015 and only 7.7% in 2016.



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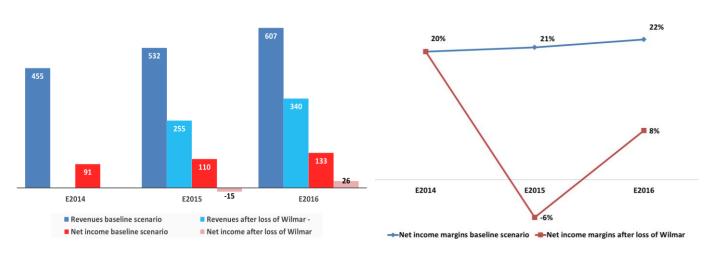


Figure 9 Scenario 1a: revenues and net income (left) and net income margins (right)

Return on Assets (RoA) and Return on Equity (ROE) would also drop significantly. Both dividends and retained earnings would drop and the stock value of the company would be readjusted. As equity growth would not keep face with increase of debt, the debt-equity ratio (leverage) would increase as well to 1.19 in 2016.

In option 1b Bumitama Agri would not be able to cancel its supply contracts with third-party suppliers. Table 20 shows that this scenario would have a major impact on the company's profitability. Revenues would drop similarly to the first option (Table 19), but as costs can hardly be reduced the net income would drop to USD -/-77.8 million in 2015 and USD -/-48.3 million in 2016. The net income margin would therefore be negative in both years.

Table 20 Scenario 1b: Bumitama Agri cannot cancel contracts with FFB suppliers								
Indicator	Unit	FY2012	FY2013	FY2014	FY2015	FY2016		
Revenues	USD million	376.0	392.1	454.6	255.2	339.7		
Net income	USD million	84.0	82.6	90.7	-77.8	-48.3		
Net income margin	%	22.3%	21.1%	20.0%	-30.5%	-14.2%		
Return on Assets	%	8.9%	8.5%	8.1%	-7.2%	-4.4%		
Return on Equity	%	16.6%	17.9%	17.0%	-17.0%	-11.8%		
Debt-equity ratio		0.78	1.01	0.98	1.28	1.57		

Table 20 annot cancel contracts with EER suppliars

RoA and RoE would also be clearly negative. This, together with lower net cash flows available for dividends, would have a major impact on the stock value of the company. This would also affect interest coverage, therefore the credit profile of the company would change. While the debt-equity ratio (leverage) increases to 1.57 in 2016, the cost of debt is expected to increase as well.

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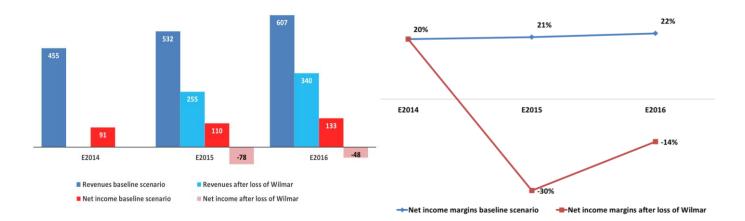


Figure 10 Scenario 1b: revenues and net income (left) and net income margins (right)

In both options, the loss of Wilmar International as a customer would have an impact on net income, ROE, ROA and leverage. Only if the company has the flexibility to cancel purchasing contracts would it return to profitability in 2016. Especially when this flexibility is lacking, the company's share price would drop given the lower expected cash-flows in the mid-term. Due to lower cash flows to service debt, the interest coverage would be correspondingly reduced. Creditors would therefore want to be compensated with a higher risk premium, which would result in a higher cost of capital for Bumitama Agri.

If Golden Agri-Resources, Bumitama Agri's second-largest customer, and other buyers would follow in Wilmar's footsteps, these steps would further reduce the company's income. We believe it is highly likely that GAR would cease purchases from Bumitama if Wilmar did as well, because the two companies face similar pressures from stakeholders on this issue, and it is difficult for one to continue purchases where the other has discontinued them.

4.4 Scenario 2: Bumitama Agri legalizes its occupation of forestland estate

As described in section 2.4.1, Bumitama Agri has applied for the legalisation of up to 28,900 hectares of oil palm plantations, which were developed without forestland release permits. Government Regulation No. 60/2012 requires the company to acquire and reforest an equivalent area to legalize its occupation of these forestland categories.

In this scenario, the costs of acquiring and reforesting compensation land to be handed over to the government are estimated at USD 3,000 per hectare. These compensation costs are modelled as an one-off extraordinary loss of USD 86.7 million. The extraordinary loss of USD 86.7 million is partially compensated by a reduction in taxes and a reduction in the profit attributable to minority shareholders, resulting in a drop of the net income with USD 58.8 million in 2015, compared to the baseline scenario.

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Table 21	Scenario 2: Bumitama Agri legalizes its occupation of forestland estate							
Indicator	Unit	FY2012	FY2013	FY2014	FY2015	FY2016		
Revenues	USD million	376.0	392.1	454.6	531.7	606.6		
Net income	USD million	84.0	82.6	90.7	50.9	132.7		
Net income margin	%	22.3%	21.1%	20.0%	9.6%	21.9%		
Return on Assets	%	8.9%	8.5%	8.1%	4.2%	9.5%		
Return on Equity	%	16.6%	17.9%	17.0%	8.8%	19.5%		
Debt-equity ratio		0.78	1.01	0.98	1.01	0.94		

Table 21 shows that Bumitama Agri's profitability and margins would be affected when forestland compensation costs have to be paid. Because of this one-off event the company would generate a lower - but still positive - net income in 2015, while return on assets and return on equity would also show a temporary drop.

4.5 Scenario 3: Bumitama Agri pays to compensate for RSPO non-compliance

As described in Section 2.2, satellite images suggest that Bumitama Agri has deforested approximately 20,000 hectares of its total land bank. According to the Remediation and Compensation procedures of the RSPO, Bumitama Agri could opt to contribute financially to a conservation fund in proportion to the area deforested.⁹⁶

In this scenario, we aim to assess the impact on Bumitama Agri's financial indicators when RSPO compensation costs have to be paid for 20,000 hectares, which are estimated at USD 3,000 per hectare when compensation is settled in cash terms.⁹⁷ Coefficients are applied by RSPO for different kinds of forests cleared prior to completing HCV studies, ranging from 1:1 (primary forests) to 1:0 monocultures. Based on analysis of forest types generally cleared by Bumitama, we apply a coefficient of 1:0.5. Hence, the compensation costs are modelled as a one-off extraordinary loss of USD 30 million. Compensation can also be settled in kind, both on site and ex situ. Bumitama had recently announced to set aside an additional 8,500 ha of forest that would contribute to settlement, and converts direct expense primarily to opportunity cost.⁹⁸

Table 22 Scenario 3: Bumitama Agri pays to compensate for RSPO non-compliance

Indicator	Unit	FY2012	FY2013	FY2014	FY2015	FY2016
Revenues	USD million	376.0	392.1	454.6	531.7	606.6
Net income	USD million	84.0	82.6	90.7	89.3	132.7
Net income margin	%	22.3%	21.1%	20.0%	16.8%	21.9%
Return on Assets	%	8.9%	8.5%	8.1%	7.1%	9.3%
Return on Equity	%	16.6%	17.9%	17.0%	14.7%	18.6%
Debt-equity ratio		0.78	1.01	0.98	0.96	0.90

Table 22 shows that Bumitama Agri's profitability and margins would be affected in 2015 when RSPO compensation costs have to be paid. Because of this one-off event the company would generate a lower net income in 2015, while return on assets and return on equity would also show a temporary drop.

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4.6 Scenario 4: Bumitama Agri loses part of its land bank

According to Indonesian Government Regulation No. 60/2012 of 6 July 2012, any remaining forestland within the concessions that had not been developed as of 6 July 2012 is not eligible for compensation and would revert back to the State. As described in section 2.4.1, Bumitama Agri could lose access to a land bank estimated at 7,300 ha based on this regulation.

Other losses of land bank could be due to permit issues (such as the loss of the entire 7,100 ha land bank of PT Hatiprima Agro), overlaps with mining concessions and land disputes with communities.

With the scenario described in this section we aim to estimate the impact on Bumitama Agri's financial indicators if the company would lose 10,000 ha of its plantation areas. This would have an impact on its production volumes and revenues.

In addition, the biological assets included on the balance sheet would be impaired, in accordance with International Accounting Standard (IAS) 41.⁹⁹ Such impairment would be reflected in the company's income statement as an extraordinary loss. Finally, the company would to have to incur extra costs to acquire additional land banks and develop these into plantations.

To estimate the possible impacts on the financial indicators of Bumitama Agri when the company loses part of its planted land bank, the following assumptions are made:

- Of Bumitama Agri's present land bank of 204,052 hectares a total area of 149,683 hectares was planted at the end of 2013 (see). In 2014, the company aims to plant 8,000 hectares,¹⁰⁰ bringing the planted area at the end of 2014 at 157,683 hectares;
- The company is estimated to lose a planted area of 10,000 from January 1, 2015, equalling 6% of its total planted area;
- The company will want to replace the land banks lost with new land banks of the same size. This means that the company will incur extra costs to acquire new concession areas and develop these areas into oil palm plantations;
- The cost for acquiring new concession areas in Indonesia is estimated at IDR 4 million per hectare (USD 339);
- Land use rights are amortised on a straight line basis in 25 years;
- Cost to develop and plant a hectare of green field (largely forest) land into an oil palm plantation (including clearing, roads, seedlings, planting and initial fertiliser) is estimated at USD 5,000 per hectare;¹⁰¹
- Development costs are spread over costs of revenues in 3 years;
- Revenues in 2015 are reduced proportionally with the percentage of the land bank which is lost, assuming that 77% of FFB is produced on the total planted land bank;
- Revenues in 2016 are assumed 10% higher than in 2015;
- Cost of revenues estimated at 60% of revenues, as share of externally procured FFB increases
- Impairment of the biological assets lost is based on the proportional loss of hectares and is registered as an extraordinary loss in the income statement.

The impacts of losing a planted land bank of 10,000 hectares as of January 1, 2015 for the financial indicators of Bumitama Agri are estimated in Table 23.

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	Scenario 4. Bunntania Agri 10303 10,000 na oritis planteu lanu bank							
Indicator	Unit	FY2012	FY2013	FY2014	FY2015	FY2016		
Revenues	USD million	376.0	392.1	454.6	505.7	581.6		
Net income	USD million	84.0	82.6	90.7	27.8	80.0		
Net income margin	%	22.3%	21.1%	20.0%	5.5%	13.8%		
Return on Assets	%	8.9%	8.5%	8.1%	2.3%	6.0%		
Return on Equity	%	16.6%	17.9%	17.0%	5.0%	12.9%		
Debt-equity ratio		0.78	1.01	0.98	1.05	1.03		

Table 23Scenario 4: Bumitama Agri loses 10,000 ha of its planted land bank

As displayed in Table 23, this scenario shows that due to the production volume lost, sales would drop with around 6% in comparison to the baseline scenario. Net income would drop to USD 27.8 million in comparison to USD 109.7 million in the baseline scenario. The losses are primarily due to the extraordinary costs of acquiring and preparing new land banks and the proportional impairment of biological assets. As a result, the net income margin in 2015 (5.5%) is considerably lower than the 20-22% in the baseline scenario, recovering partially to 13.8% in 2016.

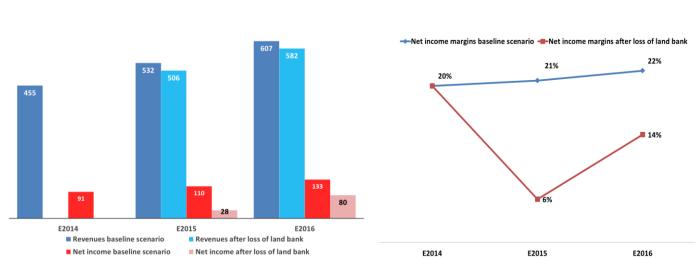


Figure 11 Scenario 4: revenues and net income (left) and net income margins (right)

Returns on Assets and Return on Equity would also drop, affecting cash flows and the value of the company. The debt-equity ratio (leverage) increases in 2016, from 0.79 in the baseline scenario to 1.03 in this scenario.

Furthermore, the loss of biological assets could also have on impact on the assets pledged to creditors. This could mean that the banks would demand additional securities, which could create challenges for Bumitama if these are not immediately available.

4.7 Scenario 5: Bumitama Agri faces difficulties to (re)finance debt

Similar to many palm oil buyers, many financial institutions are adopting policies on the palm oil sector as well, which contain criteria on deforestation, peatland development and social conflicts. The sustainability risks which Bumitama Agri is confronting - as described in section 2 - could therefore also create the risk that some financiers will become reluctant to (re)finance its debt. This



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could seriously increase the financing costs of Bumitama, thereby impacting its Return on Equity (RoE). Recent developments indicate that this risk is increasing:

- The British bank HSBC, one of the most important financiers of Bumitama Agri (see Table 13), in March 2014 published its revised Forestry and Agricultural Commodities policies. HSBC states that it will not knowingly provide financial services to growers and mills involved in: illegal operations; land clearance by burning; the conversion of areas (often forests) necessary to protect high conservation values; harmful or exploitative child labour or forced labour; the violation of the rights of local communities, such as the principle of free prior and informed consent; and operations where there is significant social conflict.¹⁰²
- The German Deutsche Bank is not a lender to Bumitama at present, but it is nonetheless noteworthy that it publicly told the NGOs Friends of the Earth Europe and Rettet den Regenwald that its asset management division had sold all shares in Bumitama, partly due to its persisting sustainability issues.¹⁰³

As the financial consequences of a more tight availability of capital for Bumitama are too uncertain to quantify, this scenario has not been modelled further in this report.

4.8 Conclusions Financial Risk Assessment (FRA)

As Bumitama Agri is a dedicated upstream company which is largely dependent on only two CPO buyers, poor management of sustainability and governance issues at its plantations could potentially have significant negative financial implications. Failure to address these issues could lead to a loss of both of its major customers, significant liabilities for compensation and remediation, a potential loss of biological assets, as well as higher costs of capital.

In this section the potential impacts on Bumitama's key financial indicators for 2015 and 2016 are assessed in comparison to a baseline scenario, based on analyst consensus. As shown in Table 24, in all scenarios Bumitama's key financial indicators - Net income margin, RoA, RoE - are depressed in comparison to the baseline scenario, while the Debt-equity ratio increases. The table shows that the strongest impact could be anticipated from the potential loss of Bumitama's landbank and the loss of its primary customer Wilmar International. In this last scenario, Bumitama's revenues would strongly go down and its net income would turn negative in 2015, and possibly in 2016 as well. The exact impact would depend predominantly on Bumitama's options to reduce FFB procurement from external suppliers and to find other customers quickly.

There is a possibility that these different scenarios could occur simultaneously, creating cumulative and more serious impacts on financial indicators. Additionally, a significant risk embedded in all scenarios is that they could result in further serious damage to the reputation of Bumitama Agri among customers, investors, and the public. This could trigger additional scenarios with negative consequences on the financial indicators of the company, such as major customers cancelling purchasing contracts and banks and investors denying financing and invetsments.

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Table 24Summary of key financial indicators per scenario in 2015								
		Key financial indicator per scenario in 2015						
Indicator	Unit	Baseline	Loss of Wilmar a	Loss of Wilmar b	Forestland legalization	RSPO compensation	Loss of landbank	
Revenues	USD million	531.7	255.2	255.2	531.7	531.7	505.7	
Net income	USD million	109.7	-14.9	-77.8	50.9	89.3	27.8	
Net income margin	%	20.6%	-5.9%	-30.5%	9.6%	16.8%	5.5%	
Return on Assets	%	8.6%	-1.3%	-7.2%	4.2%	7.1%	2.3%	
Return on Equity	%	17.6%	-2.9%	-17.0%	8.8%	14.7%	5.0%	
Debt-equity ratio		0.85	1.12	1.28	1.01	0.96	1.05	

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CRR's financial scenario analyses therefore underline that addressing current and past sustainability issues will be directly relevant for Bumitama Agri's future financial health. Bumitama Agri has told its customers and other stakeholders that it is moving aggressively to address many of these issues. For instance, it has said that it has conducted an assessment of its High Carbon Stock forests, and pledged not to engage in future deforestation. However, it has not provided these assessments, nor announced a forest conservation policy that would put it in line with its customers' requirements. It also has not made clear how it will remediate past deforestation and legal liability issues.

The extent to which Bumitama is able to successfully resolve these issues will significantly affect its financial performance - as well as the performance of its part-owner IOI Corporation - through at least 2016, and likely beyond.



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Further Information

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