



## **Speakers**



Brittany Zajic

Manager, Business Development, Planet

Focused on development of key partnerships and research of
new markets





Jonathan Ong Regional Sales Manager, APAC, Planet Responsible for Planet's business in Indonesia, Malaysia, Vietnam, Myanmar and Pakistan









#### **About Planet**

Planet is the leading provider of global, near-daily satellite imagery data and insights.

Founded in 2010 by three NASA scientists, Planet designs, builds, and operates the largest earth observation fleet of satellites, and provides the online software and tools needed to deliver data to users.

HQ in San Francisco. Offices in Berlin, Washington DC To learn more, visit <a href="www.planet.com">www.planet.com</a>
For more imagery samples: <a href="www.planet.com/gallery">www.planet.com/gallery</a>
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20+ employees in Asia-Pacific: Singapore, Australia, India, Malaysia, & Indonesia





# You can't fix what you can't see.





# We provide the solution

Planet images the whole world every day, making change visible, accessible, and actionable.







## Sustainable sourcing is increasingly important







# There is increasing pressure from multiple stakeholders...

In 2019, 60 investors with \$6+Trillion in AUM called on companies to disclose and eliminate deforestation risks in their supply chains.

BlackRock punishes 53 high-emissions companies over climate inaction, puts 191 more on watch

> **Investor Pressure**

Bank of England to test climate risks at banks and insurers in 2021

> Survey by Bain of 750 employees in 2013 across 6 countries showed that Two-Thirds said that sustainable business is extremely important to them

Consumer **Demand** 

Sustainability Agenda

> **Employee Demand**

Nielsen research found that a company's commitment to sustainability can sway product purchases for 45% of consumers.

Negotiations start on global 'Paris-style' deal to avert Earth's sixth mass extinction

24 Federatry 2000 smintr

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> Regulatory **Requirements: Current and** forthcoming

(V) Section of older Nathury or the Battle for Eak Sustainability Matters in the Battle for Talent tur Jerrey Diova Peccount Most millennials would take a pay cut to work at a environmentally







## Growing demand for certifications like RSPO

"RSPO certification has enabled us to maintain existing business relationships that have started to demand this (RSPO) certification as an indispensable requirement for us to continue working with them."



Andres Gomez Chavarriaga, Commercial manager for Uniban, first South American brand to adopt RSPO certification



# In the US and EU, greater deforestation-related regulation likely to emerge over next several years







### Including regulations locally...



#### Malaysia

National Policy on Biological Diversity has a target for 20% of the country's land surface and inland waters to be conserved as protected areas or managed using other effective area-based conservation measures by 2025



#### Indonesia

By 2025, smallholder farms also need to adhere to Indonesia Sustainable Palm Oil regulation



#### **Thailand**

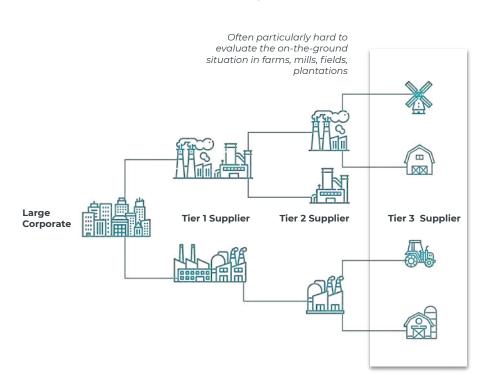
Training over 3,000 oil palm smallholders in sustainable practices, as well as goal to reduce 9,600 tonnes of greenhouse gas emissions from oil palm cultivation and cut production costs by 20%, within 2022



# Currently, many companies lose traceability and transparency going back into their supply chains

#### **Common pain points**

- Many "indirect" suppliers, possibly dispersed over large areas
- Remote, hard-to-access areas: can be hard to get boots on the ground
- Change may occur rapidly and may be missed by infrequent in-person audits
- Reported data may be biased: incentives may be misaligned to tell the truth
- Data on supplier relationships may be missing





# Lack of traceability and transparency has many negative business consequences and carries significant business risk

Consumer Demand	Lower growth, Loss of market share, Inability to charge a premium, Boycotting by consumers
Regulatory requirements	Risk of fines, citations, bans, embargoes
Employee Demand	Access to smaller talent pool, talent retention issues
Investor Pressure	Risk of divestment, harder to secure funding, more expensive funding







# Satellite data can be used to monitor remote, broad areas -- those where deforestation risk is highest

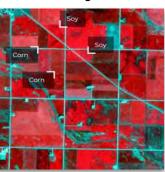
2/3 of tropical deforestation occurs due to "big four" commodities:

#### **Cattle**



Cattle watering holes are often an early sign that more land clearing for cattle will happen

#### Soy



Crop classification for soy and corn can be done on PlanetScope data based on spectral reflectance

#### **Palm**



Achi Jaya Palm Oil plantation, Malaysia - a supplier of General Mills as seen Oct 31st 2020 capture by PlanetScope

#### **Timber & Pulp**



SkySat is tasked to collect higher-res imagery over an area where roads are seen being built in Planetscope



# AMAZON DEFORESTATION

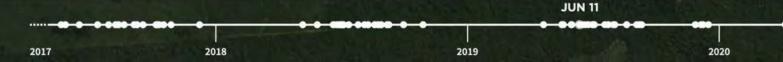
May 2017-Sep 2020

planet.

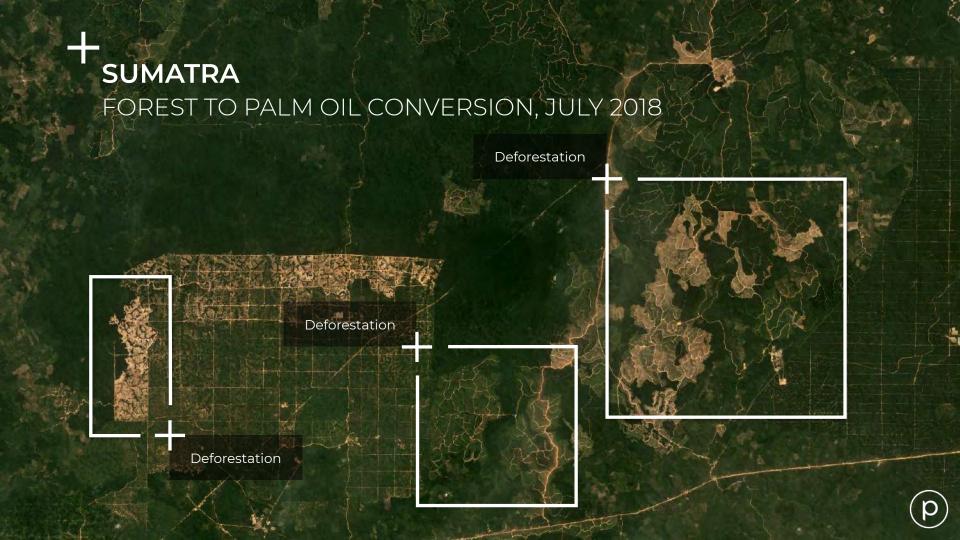


0.5 mi

0.5 km









## Fire Monitoring

Palangka Raya, Central Kalimantan

Forest fire detected in PlanetScope imagery from July 14 - August 12, 2019







## Fire Monitoring

Palangka Raya, Central Kalimantan

Ability to monitor the progress of the fire - broad area situational awareness greatly enhanced -> better emergency response

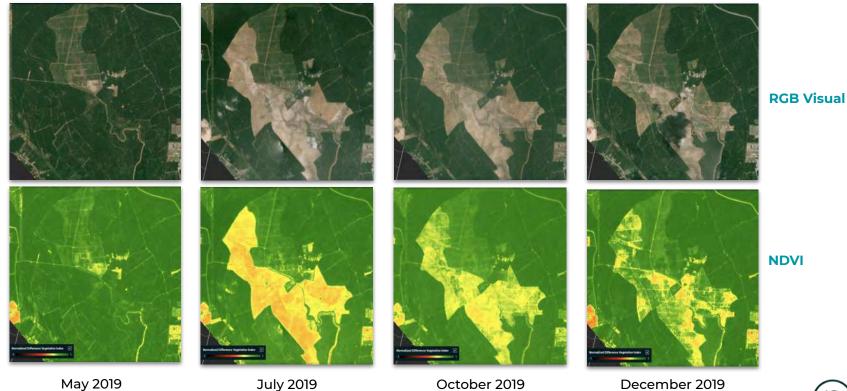








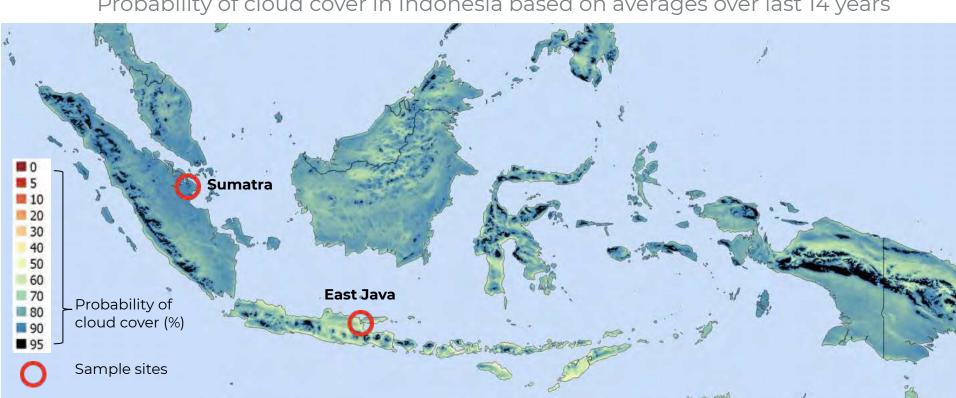
## Planting Progress Monitoring in Peninsular Malaysia



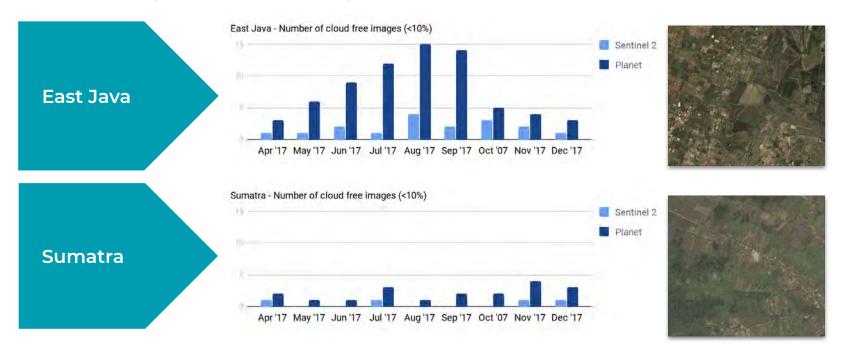
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# This is particularly important in areas of tropical rainforest which tend to be very cloudy

Probability of cloud cover in Indonesia based on averages over last 14 years



# Our cadence means we have up to 5x more image availability in several key areas





## Planet also has higher resolution than other data sources

# **From**

NASA: Landsat-8 (30 m)

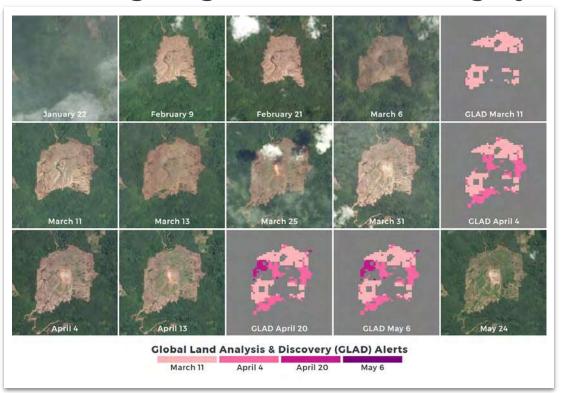
European Space Agency: Sentinel-2 (10 m)







# Planet data complements GLAD and RADD alerts with validation through higher resolution imagery





It takes an ecosystem of partners for some of these solutions 
Planet works with a number of partners.
In addition, we pride ourselves on our modern APIs and cloud infrastructure

# You're invited! EXPLORE 21: OCTOBER 13-14







#### **Additional Resources**

Optimize Palm Oil Plantation Management & Sustainable Growth with High-Resolution Satellite Imagery

**On-Demand Webinar** 



**SCAN HERE** 

Planet-based Sustainable Supply Chain Solutions

On-Demand Webinar



**SCAN HERE** 

# Latest Ag articles: planet.com/pulse/





#### Top 5 Misconceptions About Satellite Imagery for Agriculture



From the early days of Landsat to present-day commercial providers, agriculture has been one of the largest adopters of satellite imagery. By partnering with leading agricultural companies over the years, we've gained a window into the day-to-day challenges, concerns, and opportunities that growers have across the globe.

Planet's vision is to deliver precise and reliable field-level crop information to help agriculture companies and their growers optimize inputs, monitor crop health, and morove vield.

We've gathered the top misconceptions about using satellite imagery for agriculture.

# Thank you!

Reach out to our team:

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For more information, you may find us here:







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