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MAPPING MADE EASY

Online Applications for Sustainable Palm Oil

Roundtable on Sustainable Palm Oil RT10, Singapore, October 30, 2012

Beth Gingold

How can we support sustainable palm oil production that maintains high conservation values in Indonesia?

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What if we provide RSPO members with
EASY ANSWERS to COMMON QUESTIONS ?

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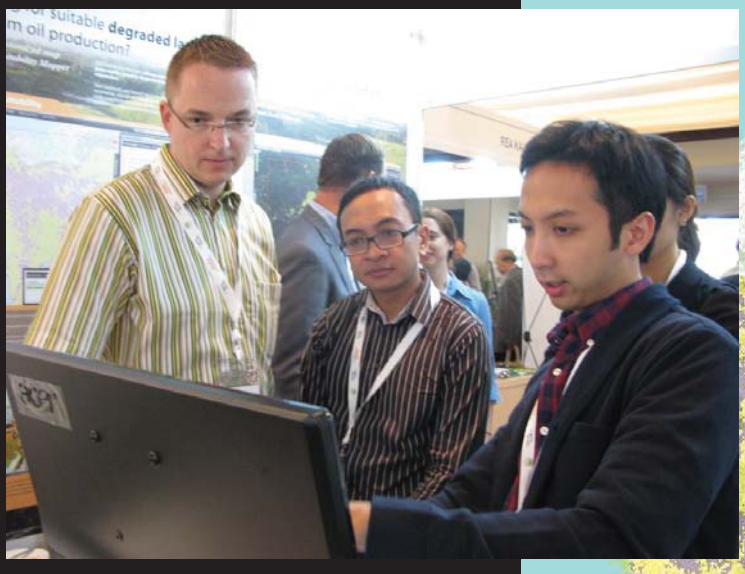
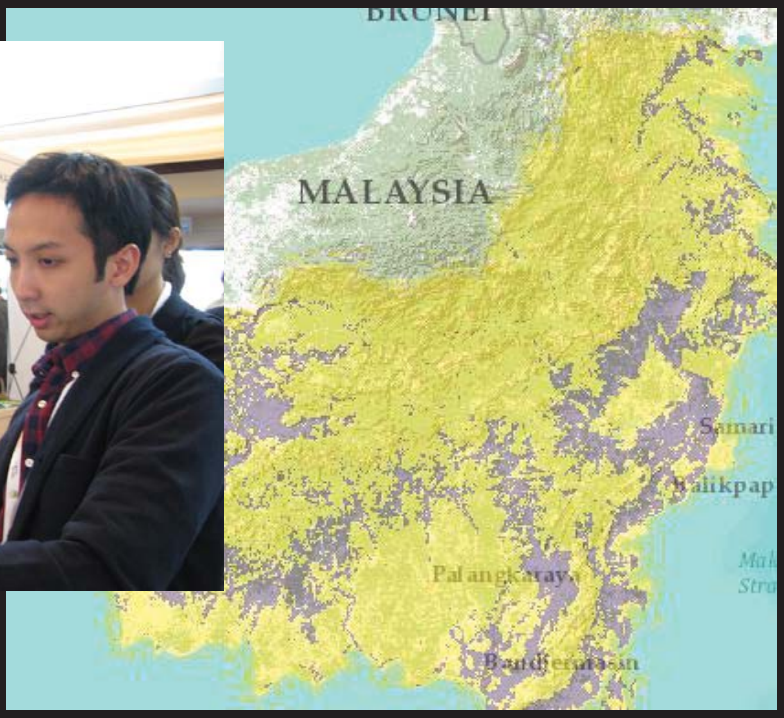
Where are potentially suitable areas for
oil palm expansion – e.g. likely to contain
low carbon stocks/biodiversity ?





How can we use transparent, objective data on forest cover to strengthen financial incentives for maintaining high conservation values?

How can we use and improve the Suitability Mapper and Forest Cover Analyzer to support sustainable palm oil production?

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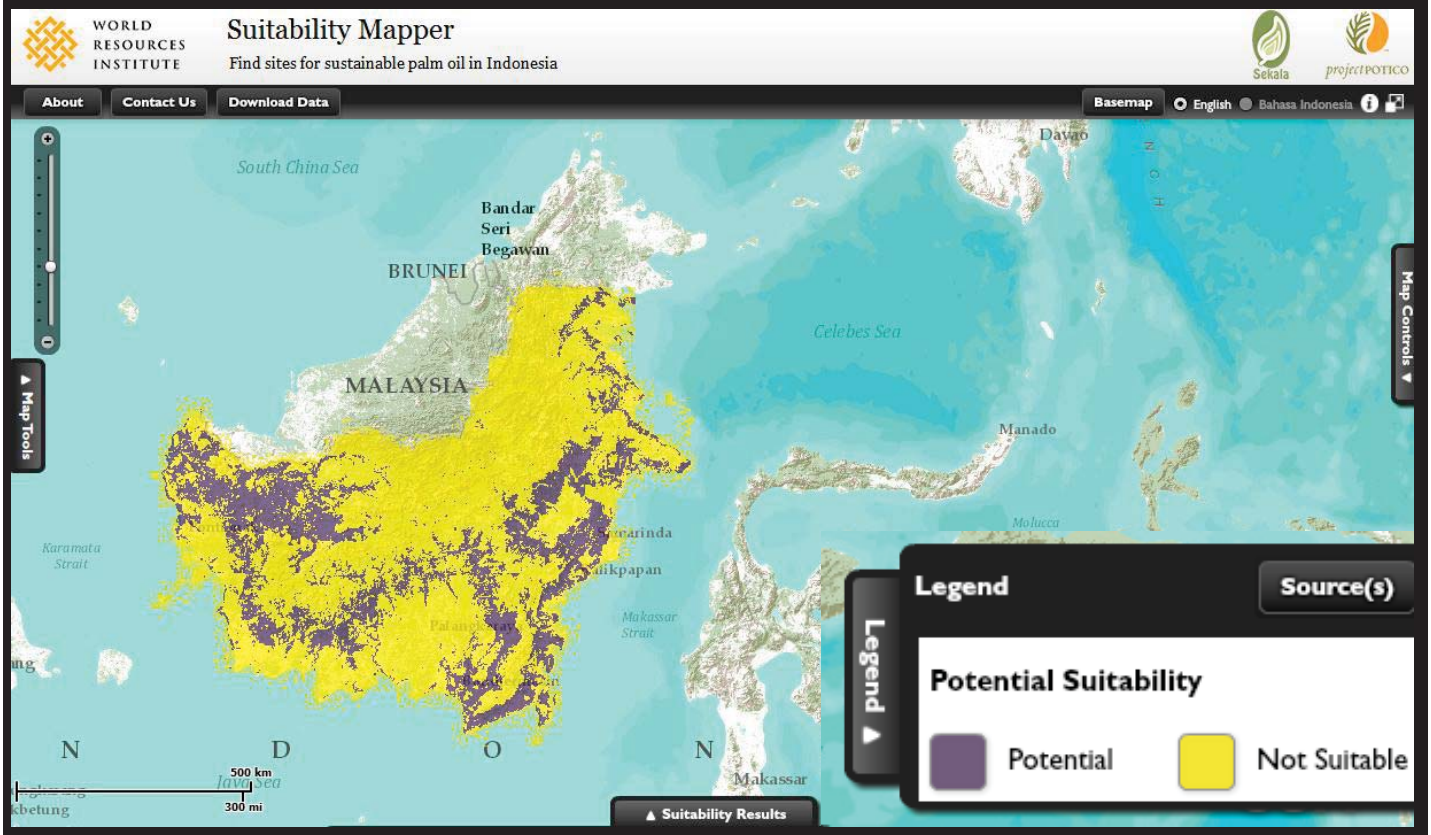
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Davao
Manado
Molucca
Karamata Strait
Makassar Strait
Makassar
Map Tools
Map Controls
Legend
Source(s)
Potential Suitability
Potential
Not Suitable
500 km
300 mi
Suitability Results
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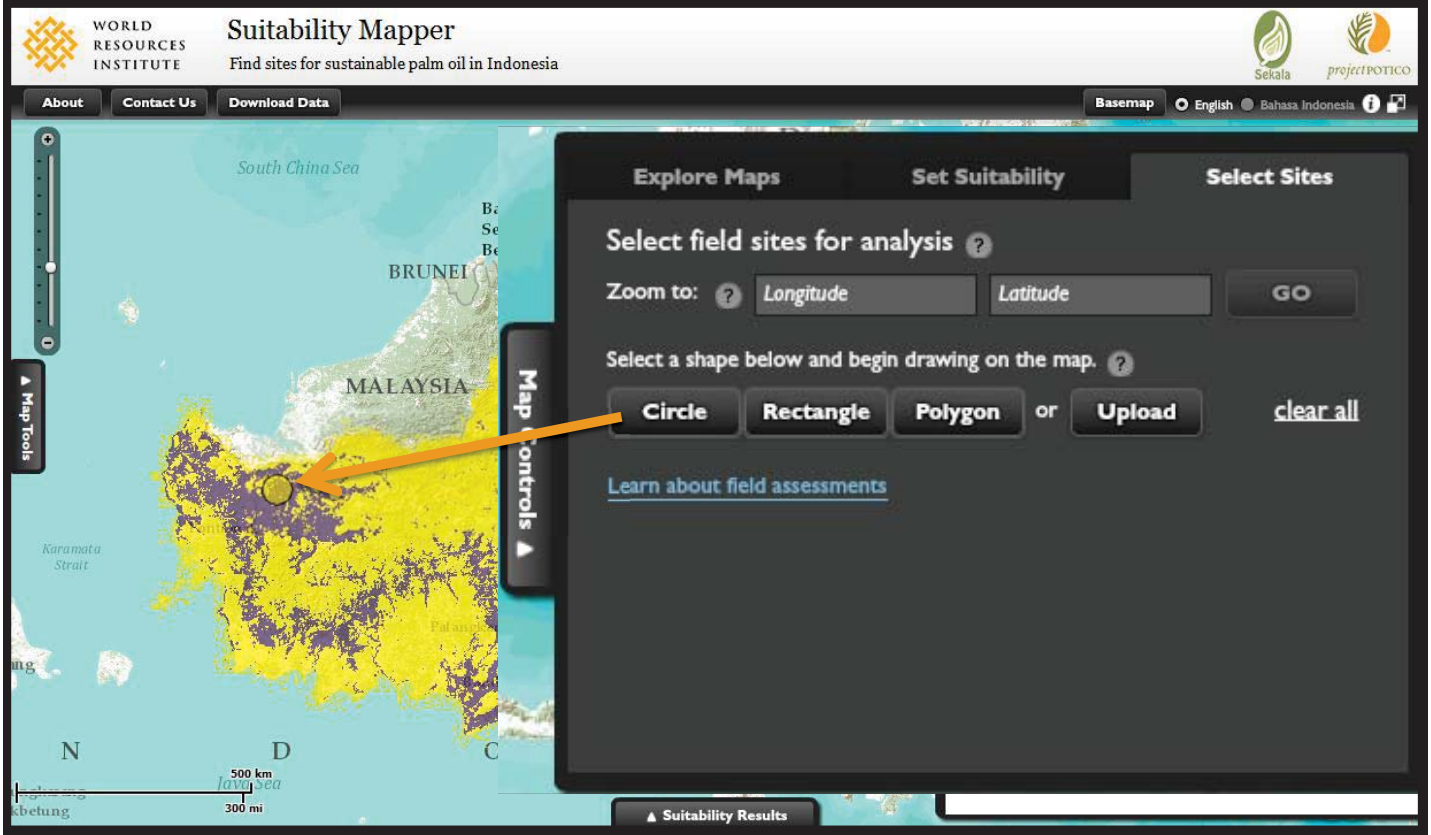
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Select Sites
Select field sites for analysis
Zoom to:
Longitude
Latitude
GO
Select a shape below and begin drawing on the map.
Circle
Rectangle
Polygon
or
Upload
clear all
Learn about field assessments
500 km
300 mi
Suitability Results
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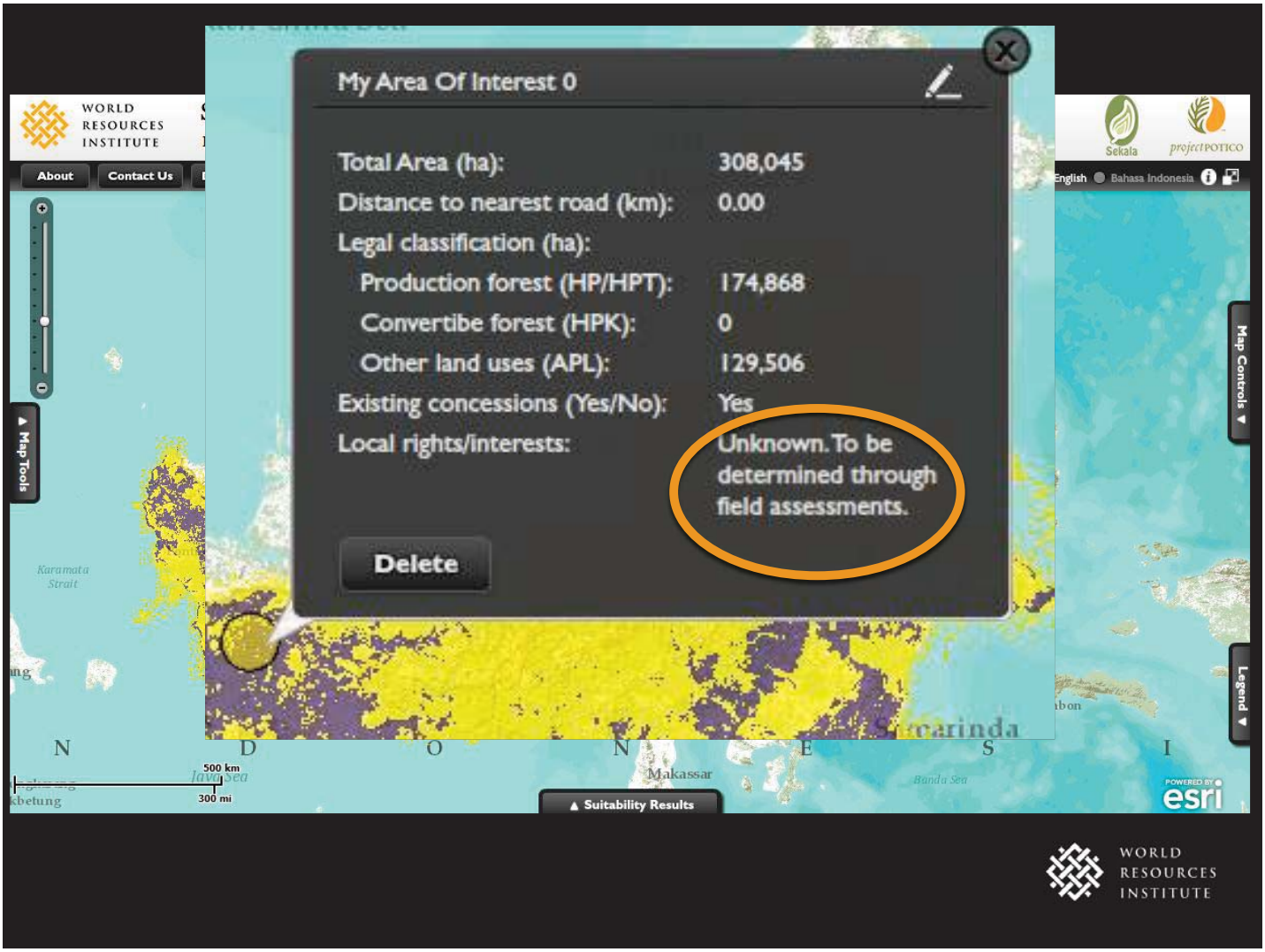
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Bahasa Indonesia
My Area Of Interest 0
Total Area (ha): 308,045
Distance to nearest road (km): 0.00
Legal classification (ha):
Production forest (HP/HPT): 174,868
Convertibe forest (HPK): 0
Other land uses (APL): 129,506
Existing concessions (Yes/No): Yes
Local rights/interests: Unknown. To be determined through field assessments.
Delete
Map Tools
Map Controls
Legend
Karamata Strait
Makassar
Banda Sea
500 km
300 mi
Suitability Results
esri
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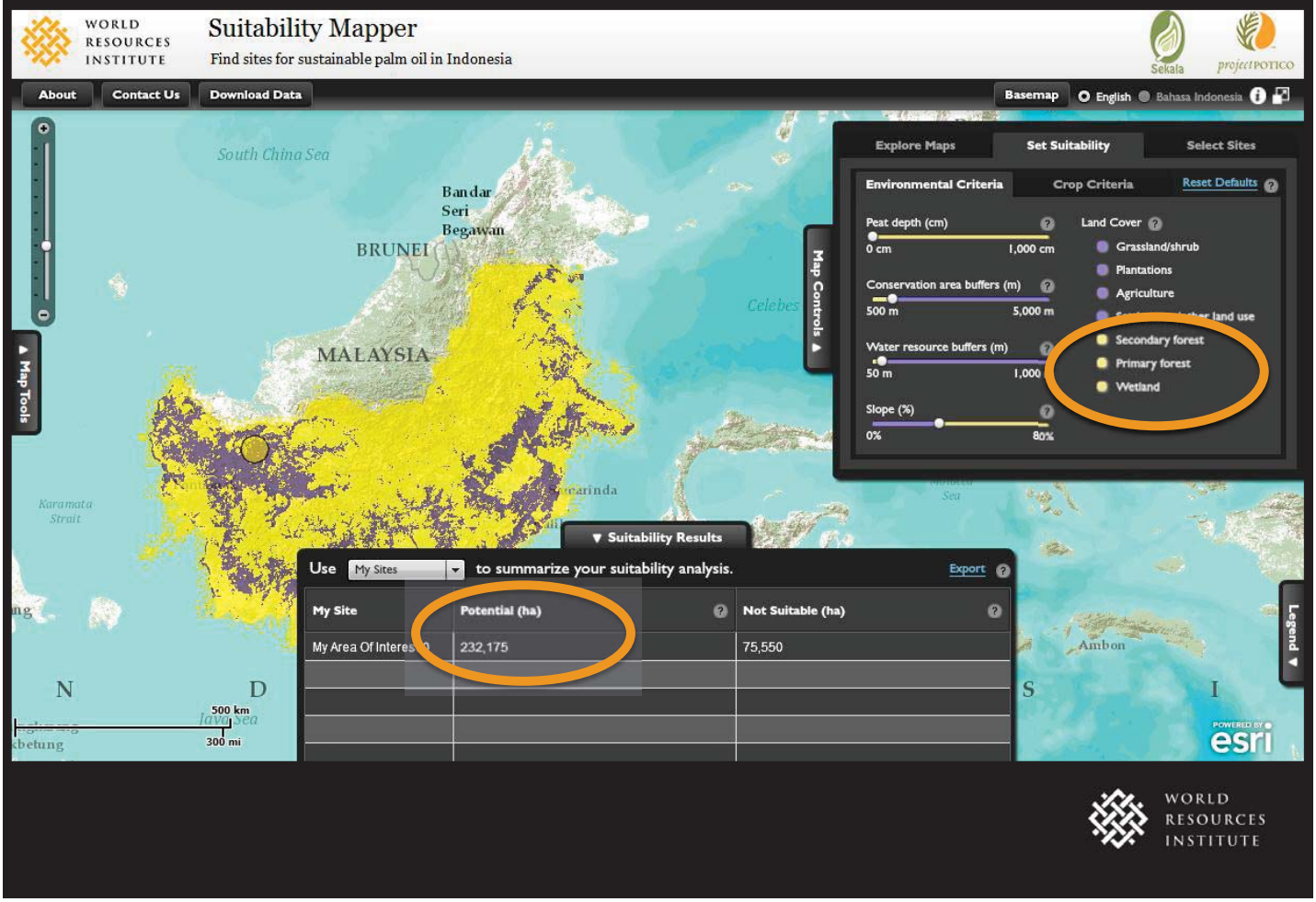
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Explore Maps
Set Suitability
Select Sites
Environmental Criteria
Crop Criteria
Reset Defaults
Peat depth (cm)
0 cm
1,000 cm
Conservation area buffers (m)
500 m
5,000 m
Water resource buffers (m)
50 m
1,000
Slope (%)
0%
80%
Land Cover
Grassland/shrub
Plantations
Agriculture
Secondary forest
Primary forest
Wetland
Map Tools
Map Controls
Legend
Karamata Strait
Ambon
Suitability Results
Use My Sites to summarize your suitability analysis.
Export
My Site
Potential (ha)
Not Suitable (ha)
My Area Of Interest 0
232,175
75,550
500 km
300 mi
esri
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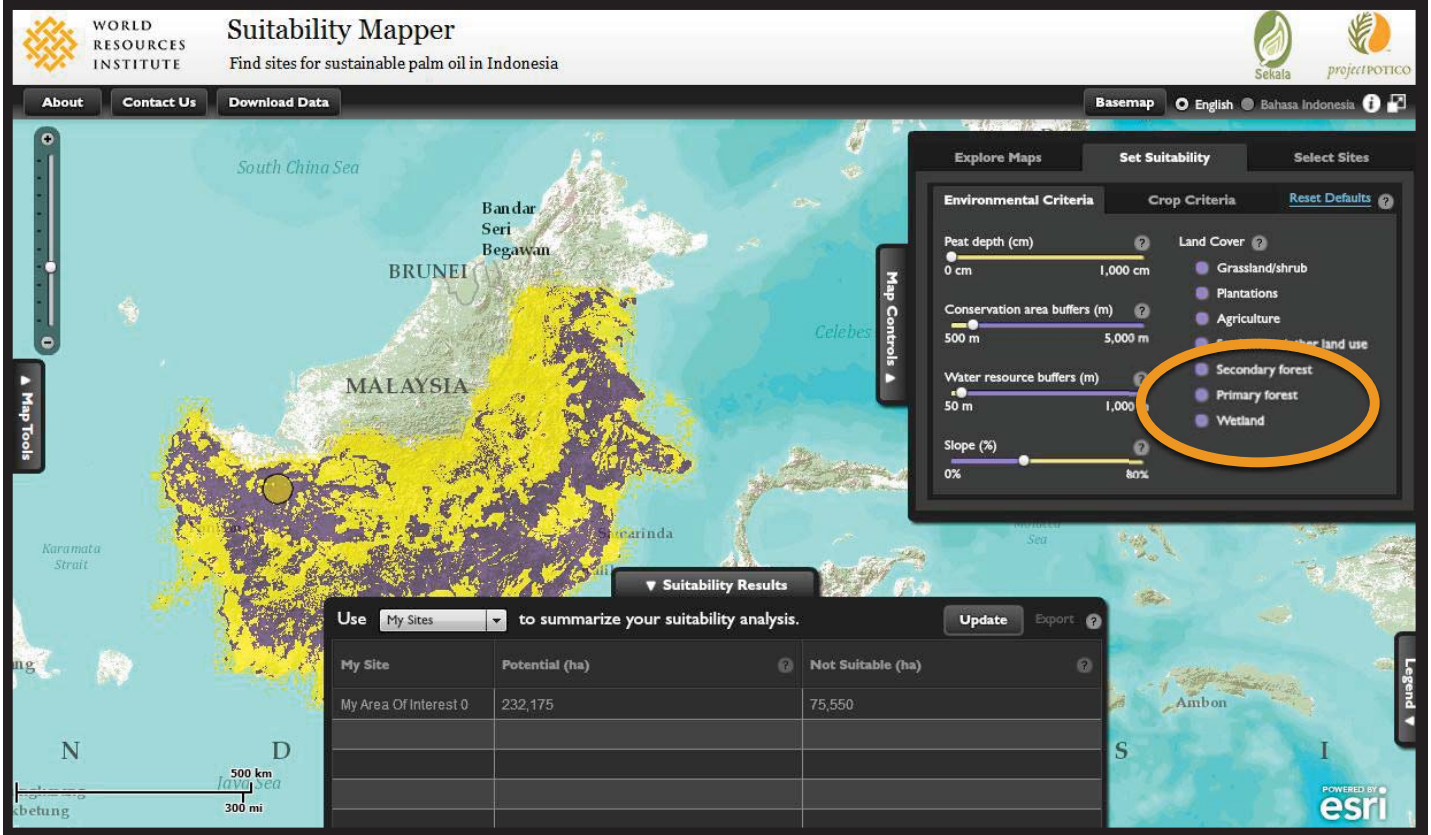
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Grassland/shrub
Plantations
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Secondary forest
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Wetland
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Map Tools
Legend
Suitability Results
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My Sites
to summarize your suitability analysis.
Update
Export
My Site
Potential (ha)
Not Suitable (ha)
My Area Of Interest 0
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75,550
500 km
300 mi
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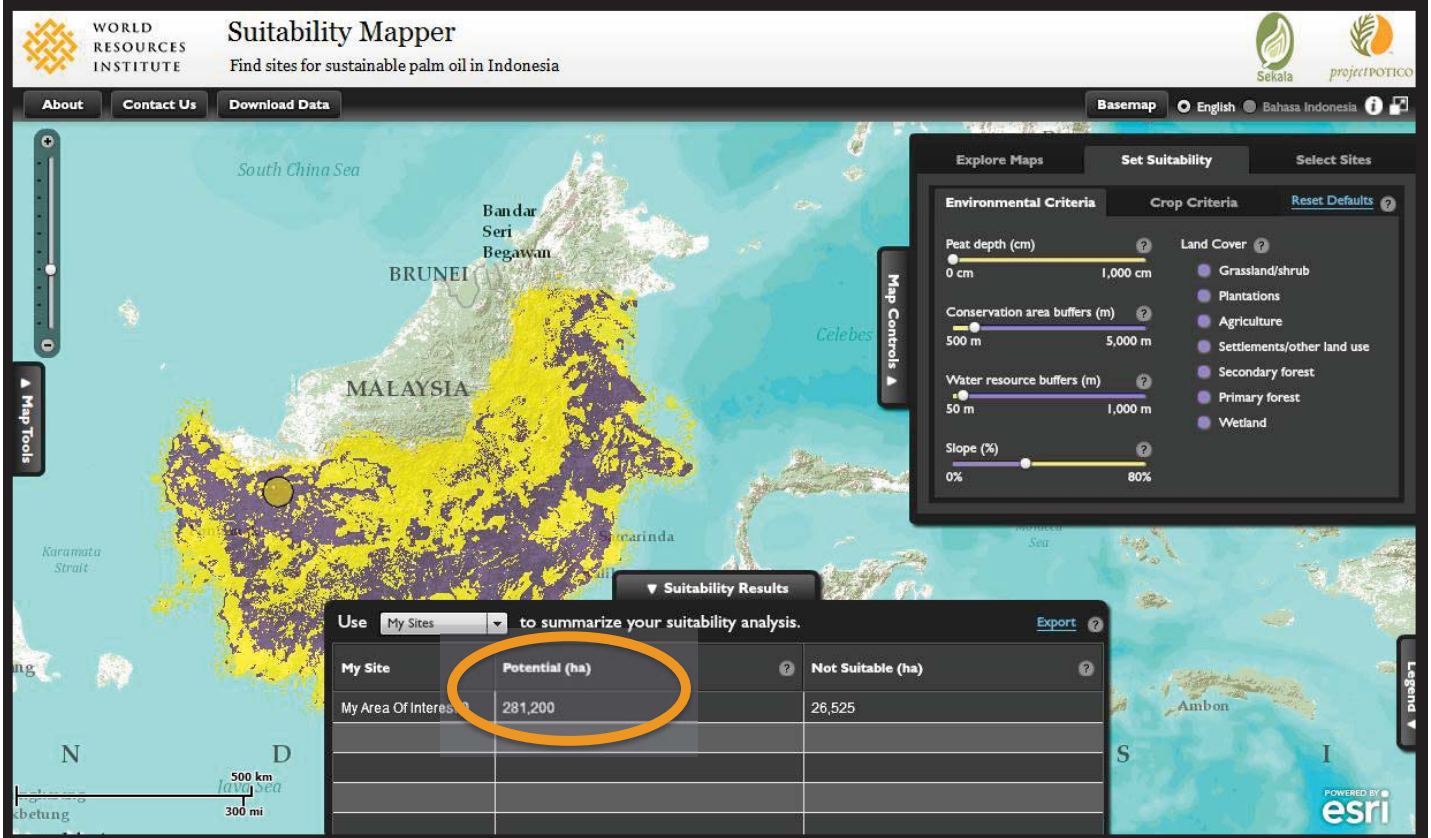
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1,000 m
Slope (%)
0%
80%
Land Cover
Grassland/shrub
Plantations
Agriculture
Settlements/other land use
Secondary forest
Primary forest
Wetland
Map Controls
Map Tools
Legend
Suitability Results
Use
My Sites
to summarize your suitability analysis.
Export
My Site
Potential (ha)
Not Suitable (ha)
281,200
26,525
500 km
300 mi
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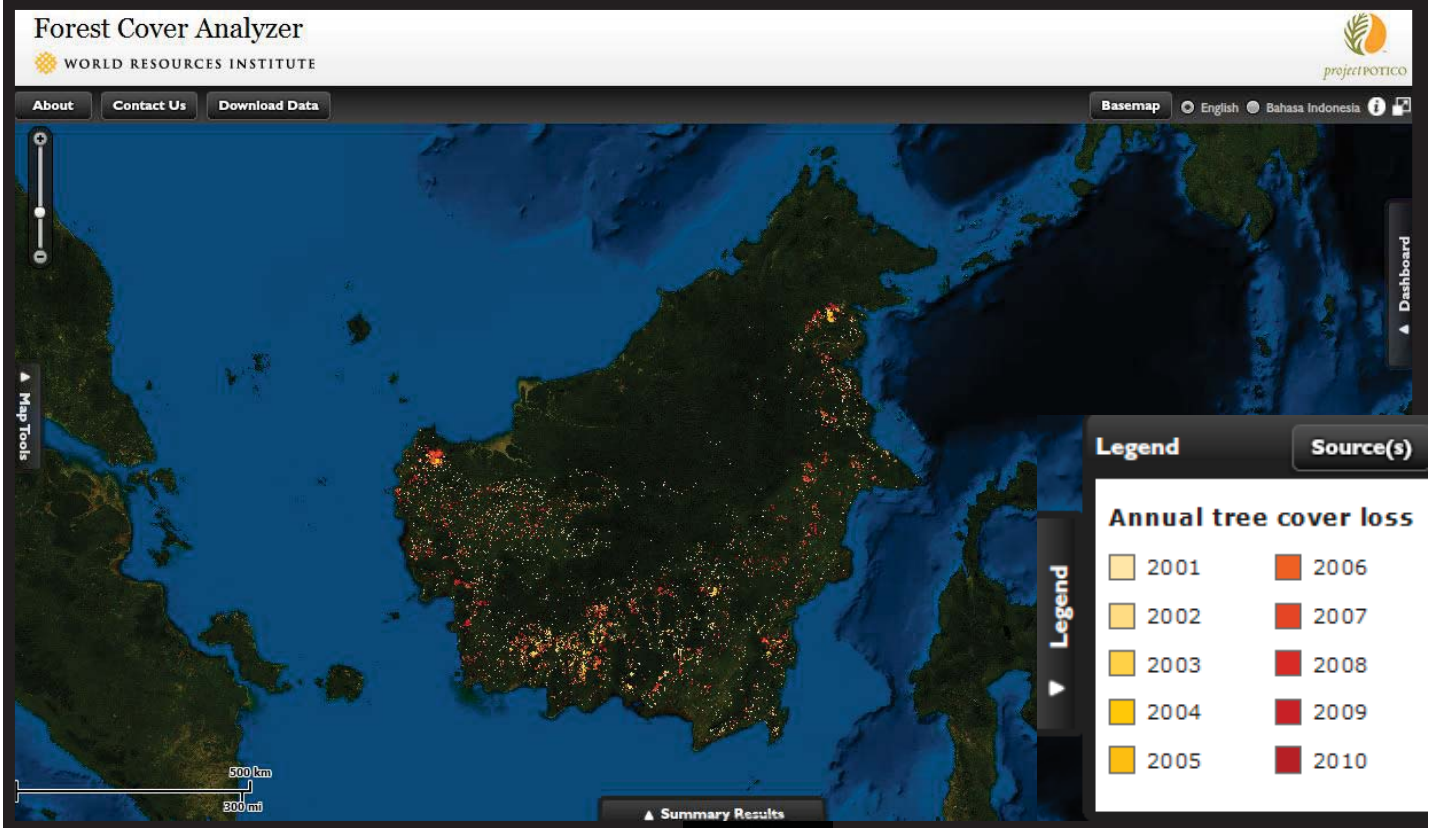

Rainforest Alliance
Alianza para Bosques

SarVision

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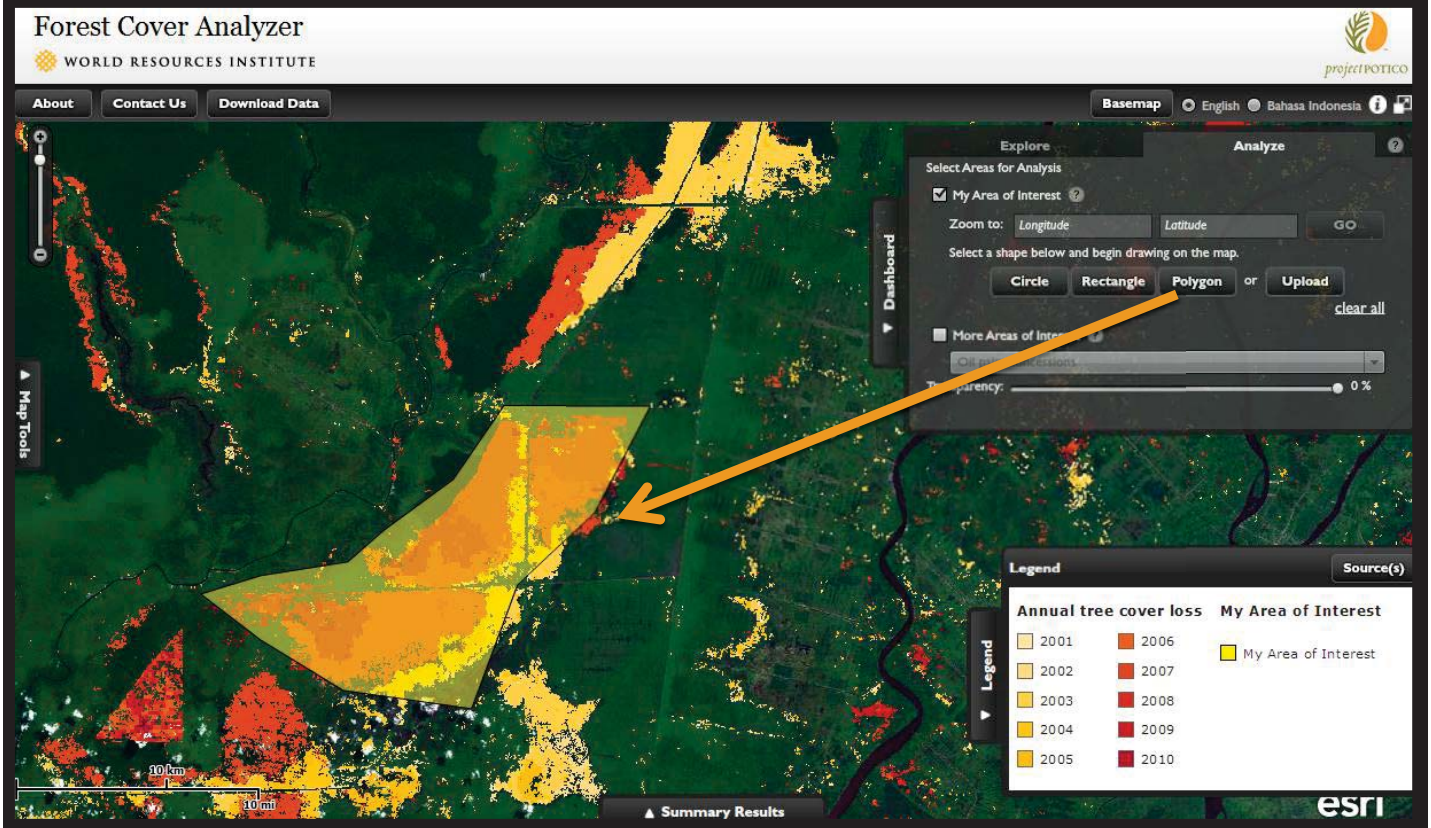

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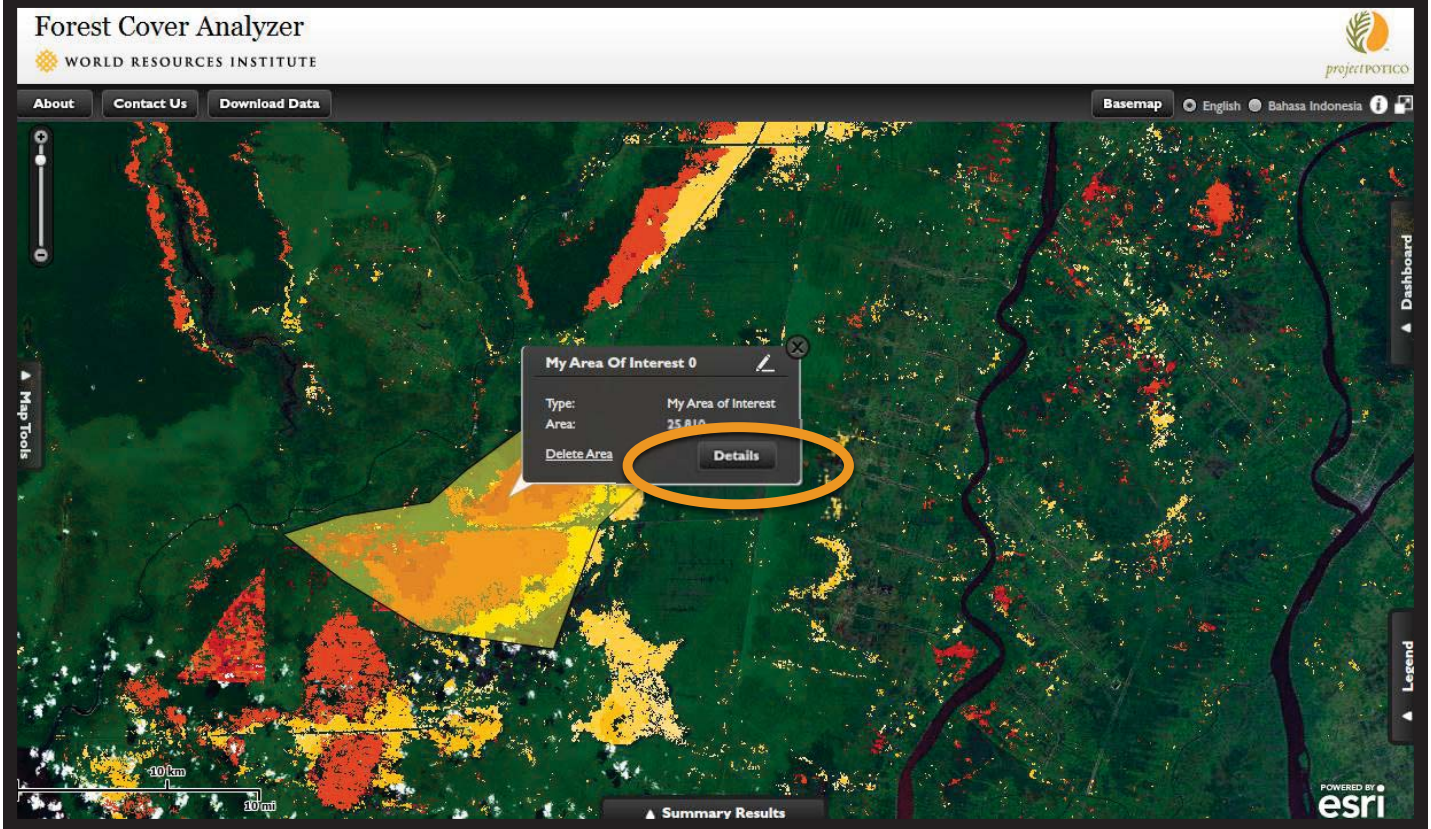

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Over 14,000 hectares of forest loss between 2005 and 2010

Change | Forest Cover | Legal

Export

Tree Cover Loss (ha)

Years	Primary Forest Loss	Other Forest Loss	Total Loss
2001-2005	3,275	175	3,450
2006-2007	6,175	675	6,850
2008-2010	6,775	1,275	8,050

Source: South Dakota State University, 2011

Change Alerts (#)

Years	Number of Alerts
2011-2012	Coming Soon

Source: World Resources Institute, 2013

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Over 25,000 hectares likely to contain high carbon, biodiversity values

My Area Of Interest 0

Change | Forest Cover | Legal | Export

Forest Cover	Area (ha)
Primary Forest	2,025
Other Forest	2,650
Wetland	425

Source: Sarvision, 2011: Land Cover 2010

Peat	Area (ha)
Peatland	25,150

Source: Wetlands International, 2004

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100% area not legally classified to allow for palm oil production

Change | Forest Cover | Legal | Export

Legal Classification	Area (ha)
Conservation Forest (KSA-KPA)	3,250
Protection Forest (HL)	5,650
Limited Production Forest (HPT)	0
Production Forest (HP)	16,625
Convertible Production Forest (HPK)	0
Other Land Use (APL)	0

Source: Ministry of Forestry, year unknown

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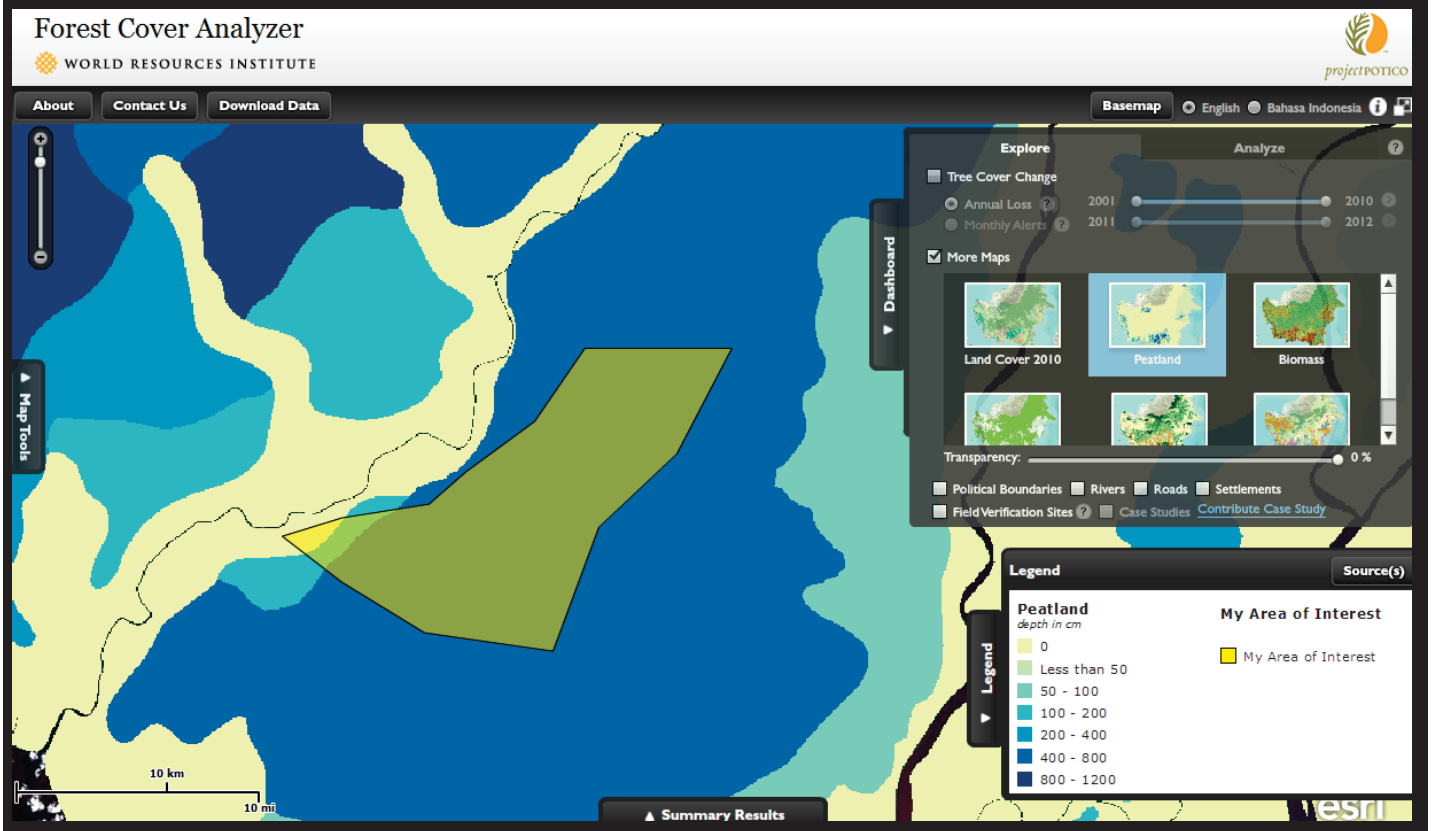

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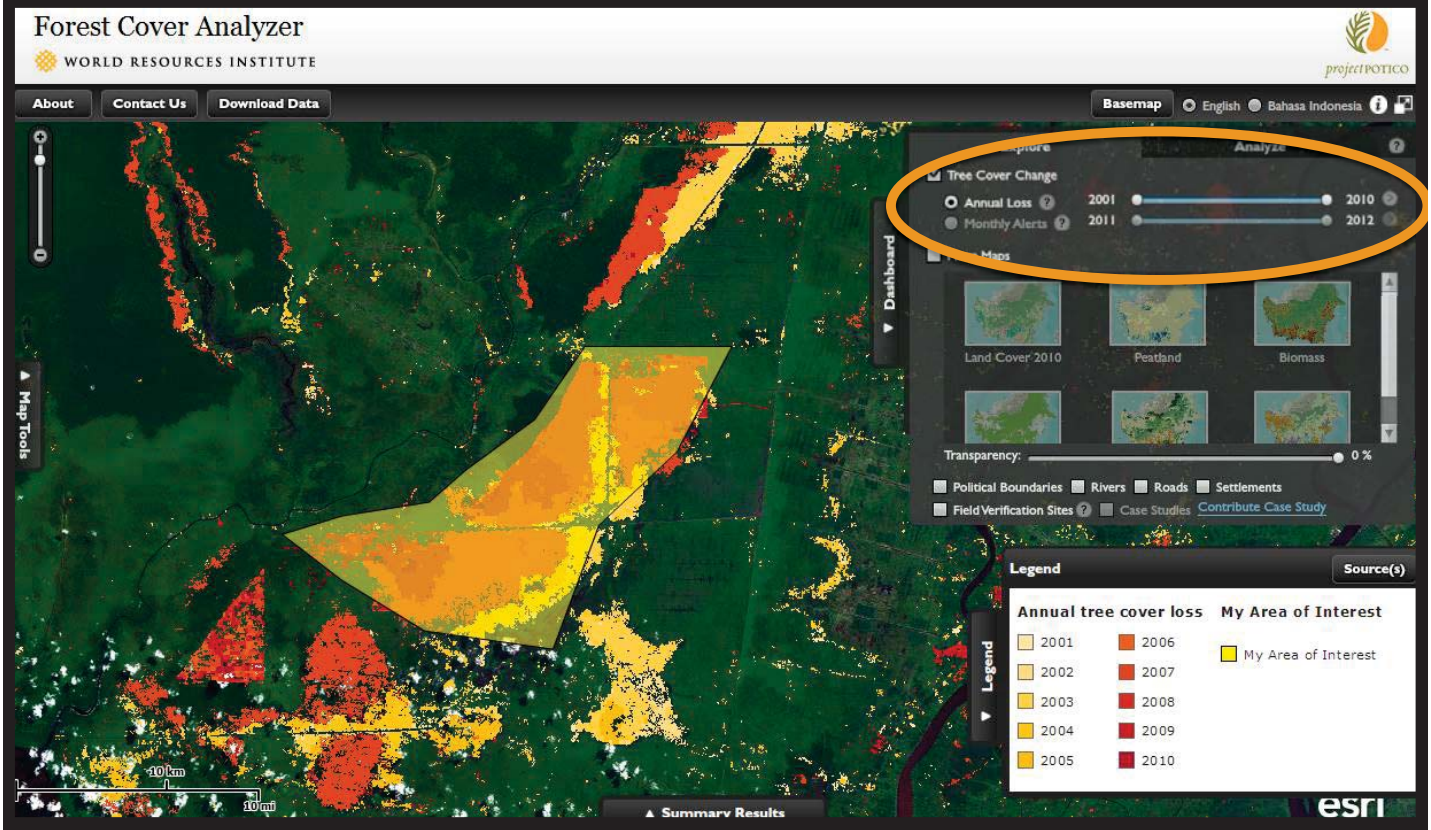

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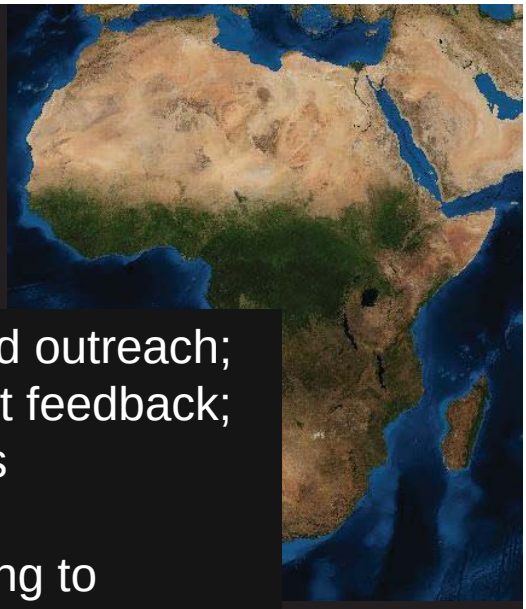
What next?



- Next 3-6 months: Trainings and outreach; government workshops; collect feedback; add alerts; collect case studies
- Long term: Customize according to feedback; Expand geography and crops
- We welcome your ideas!

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Anne.Rosenbarger@wri.org
POTICO Fellow, Bali

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Links

http://www.wri.org/project/potico/about-suitability-mapper

http://www.wri.org/project/potico/about-forest-cover-analyzer

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Possible Uses: Suitability Mapper

- Producers: identify high priority sites; discuss implications of different policy options (e.g. with NGOs, government officials)
- Government officials: discuss possible policy options for use of “degraded land”
- Your ideas ?

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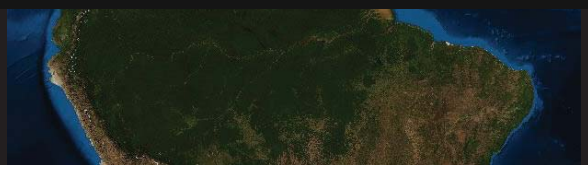
Possible Uses: Forest Cover Analyzer

- Producers/Certification Bodies: Check risk that area has showed forest loss since November 2005; demonstrate maintenance of HCV set-asides
- Investors/Buyers/CBs: obtain concession information from clients/suppliers and check selected risks related to RSPO Criterion 7.3.
- RSPO: internal monitoring; helping companies identify risks
- NGOs: Monitoring, data sharing
- Your ideas ?



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