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BUSINESS

FROM

SMART

SPACE DATA

9.8.2019 Jani Heikkilä

**CLIMATE
CHANGE
IS ONE OF THE
GREATEST
CHALLENGES
OF HUMANITY**

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Bioeconomy sector (forests and agriculture) can scale up tremendously in fighting climate change

... in good and bad



Scope of the current forest fires in Russia



**EARLIER
THIS YEAR**

**18 000 kg CO₂ when
new growth starts
without normal 1-
year delay**

**= 100 000 km of
driving
= 10 years of
vegan diet**

**Bioeconomy sector
has the possibility to
be a game changer in
preventing climate
change**



WHAT WE
DO IN
BITCOMP?



SOLUTIONS FOR BIOECONOMY SECTOR

Customer problem

Space data from satellites

Customer business data

Machine learning methods

Service implementation

→ Value bringing services

In forestry controlling of cuttings by field audits is expensive

Sentinel 2 data  esa

Machine learning

Cloud processing

→ FOREST CHANGE
DETECTION SERVICE



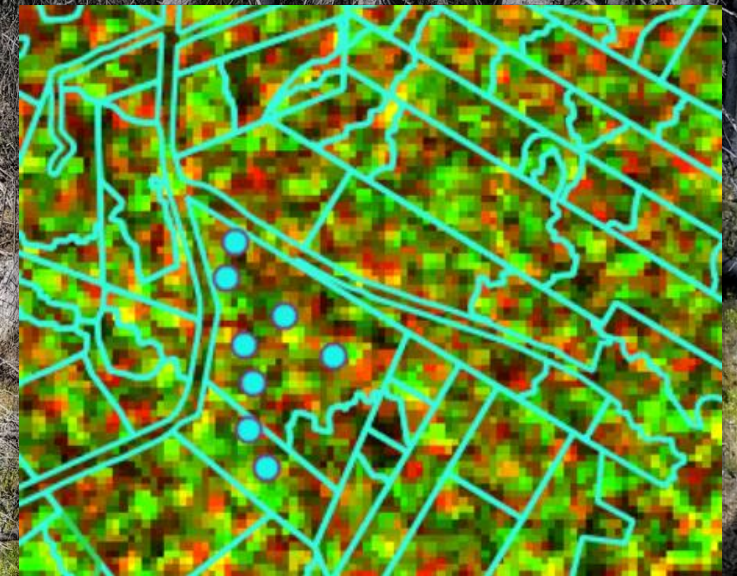
Current forest damage
assessment methods
are too expensive, slow
and in-accurate

Sentinel 1 data  esa

Machine learning

Cloud-based
processing

→ FOREST DAMAGE
DETECTION SERVICE



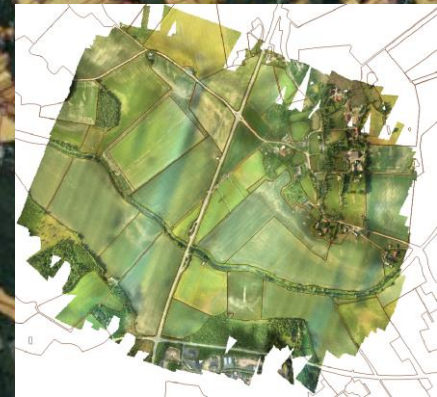
Controlling EU farm
subsidy payments by
field sample controls
takes time and money

Sentinel 1 data  esa

Machine learning

Cloud-based
processing

→ CROP MONITORING
SERVICE





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GEO

DATA SERVICES

Use the space data in
mobile devices

WHAT YOU NEED TO DO BUSINESS WITH SPACE DATA?

1. Deep understanding of client needs
2. Persistence
3. Curiosity on technology and science



A photograph of a man and a woman in a park. The man, on the left, is wearing a dark leather jacket and is looking at a smartphone held in his hands. The woman, on the right, has long blonde hair and is wearing a patterned scarf and a dark jacket. She is smiling and looking up at the man. The background is a soft-focus park with trees and sunlight filtering through the leaves, creating a bokeh effect. A large blue triangular graphic is overlaid on the right side of the image, containing text and a list of bullet points.

FUTURE

- Increasing amount of satellites
 - New sensors
- Developed analysis methods
- A lot of challenges to solve