Beril Sirmacek

farmAR

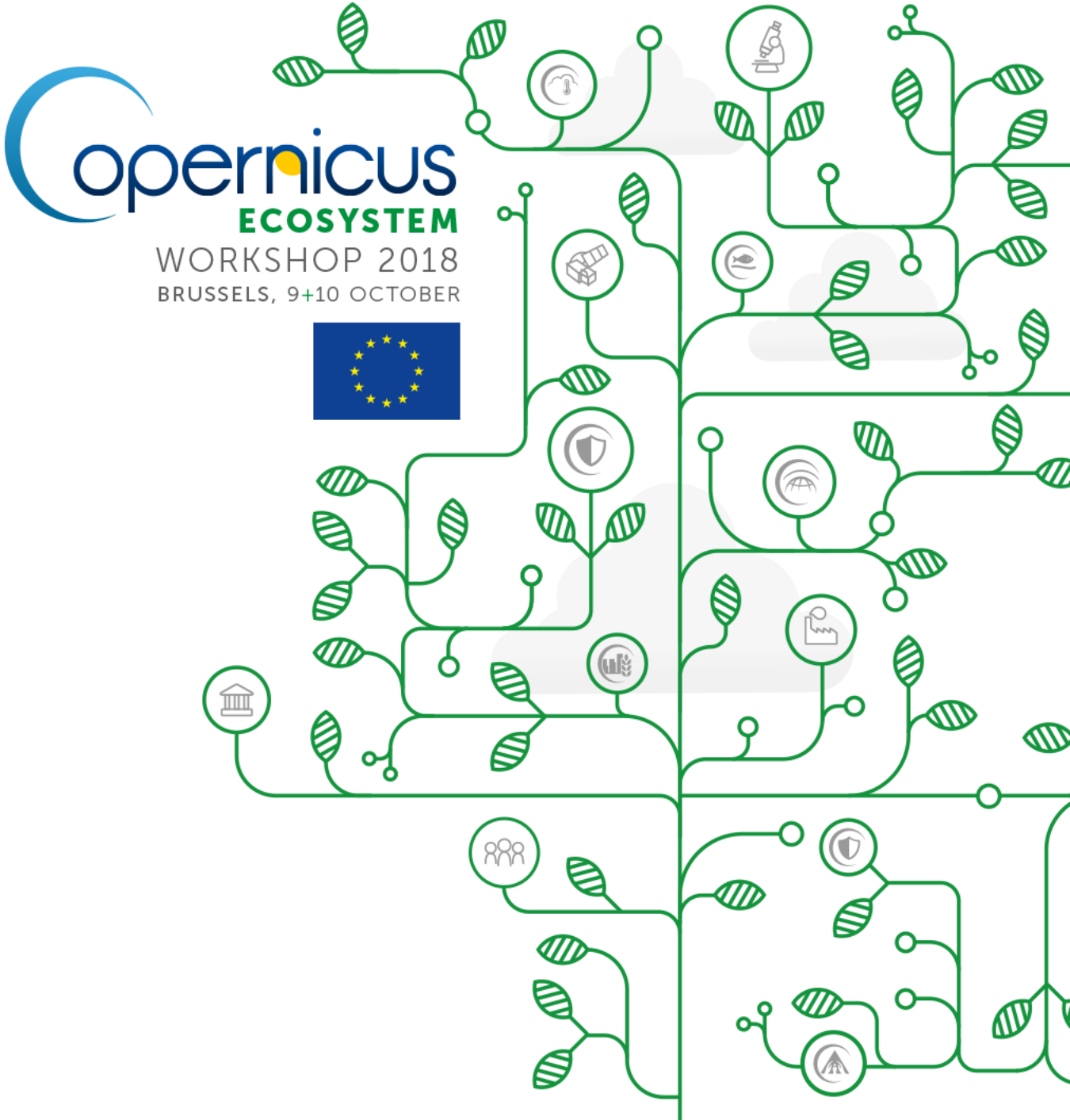
Copernicus ECOSYSTEM WORKSHOP 2018
BRUSSELS, 9+10 OCTOBER

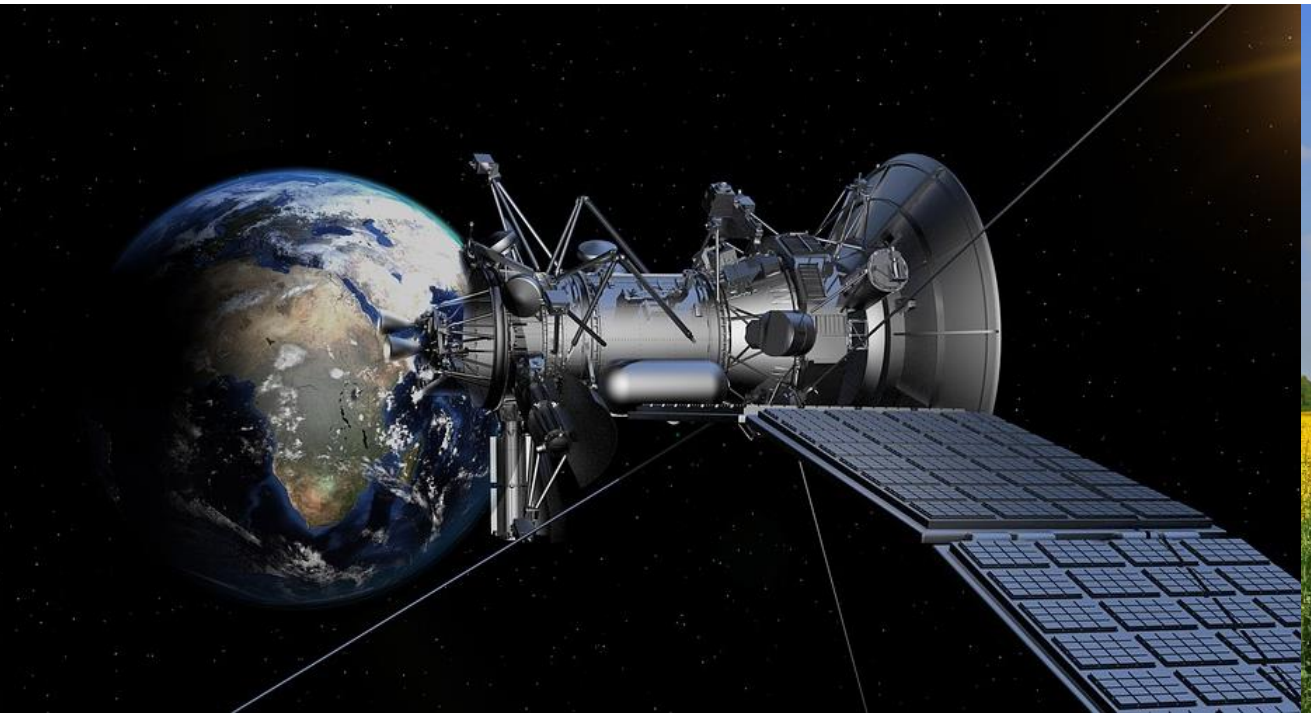
farmAR app

making invisible visible

Beril Sirmacek, Dr. -Eng.

CEO at create4D (www.create4D.com)





- Reach data easily?
- Reach data consistently?
- Low cost solution?
- Understandable UI?

Practicality needs:

Access

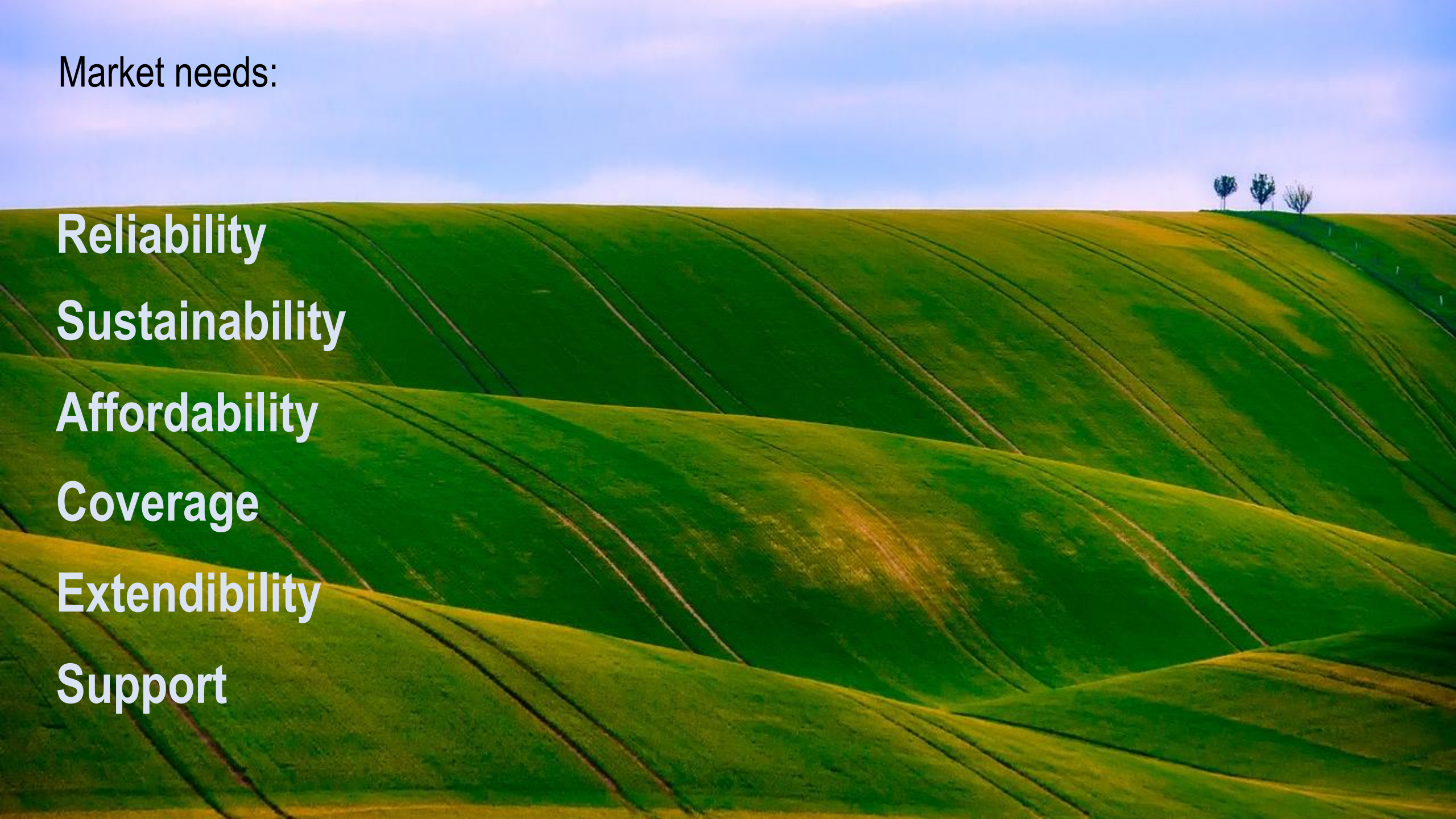
Visualization

Interpretation

History

Support

Market needs:



Reliability

Sustainability

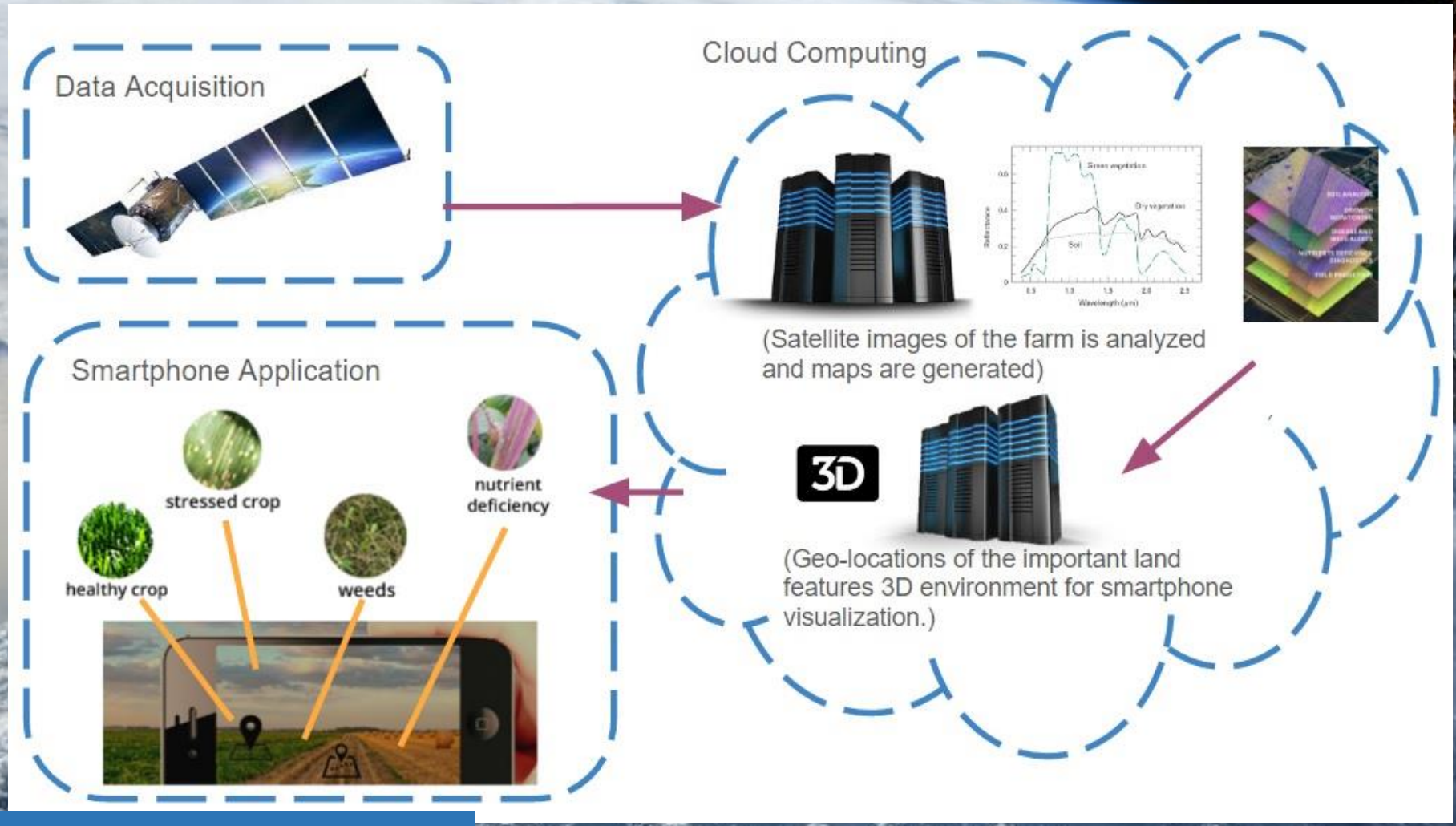
Affordability

Coverage

Extendibility

Support

WORLDWIDE SERVICE



REAL-TIME SCALABLE WITH REMOTE SENSING BIG DATA

Output of the 1st cloud cluster

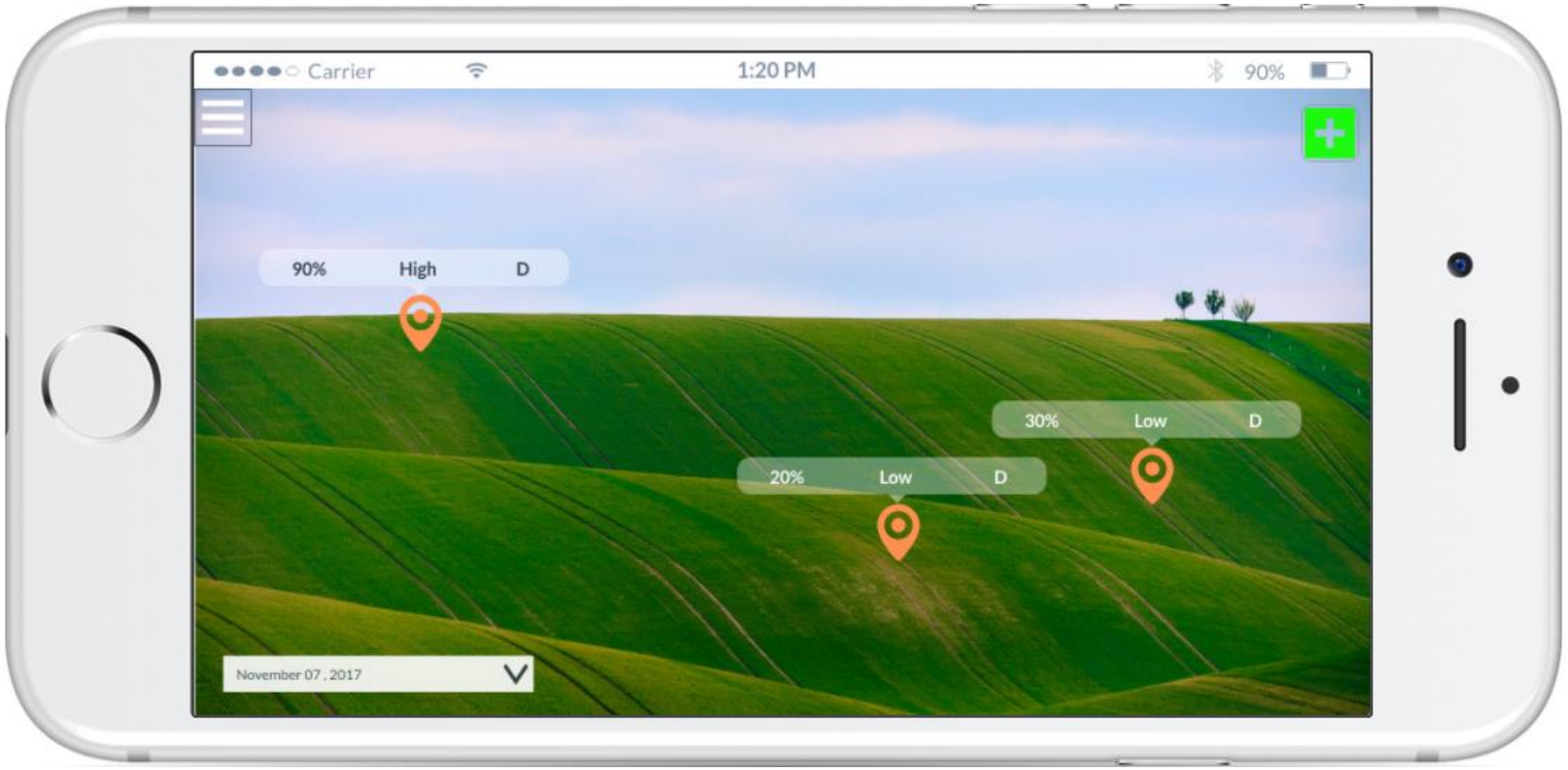
INPUT:

- **Sentinel 1 and 2**
  - NDVI
  - NDWI
  - Leaf Area Density
  - Biomass density
  - Visible Soil and Vegetation Relation
  - Uniformity

OUTPUT:

- 2D geoTAGs
  - Geolocation (Lat, Long)

Output of the 2nd cloud cluster



INPUT:

- 2D geoTAGs
  - Geolocation (Lat, Long)
- GPS position (including height)
- Compass + Accelerometer + Gyroscope (exact 3D pose of the camera)

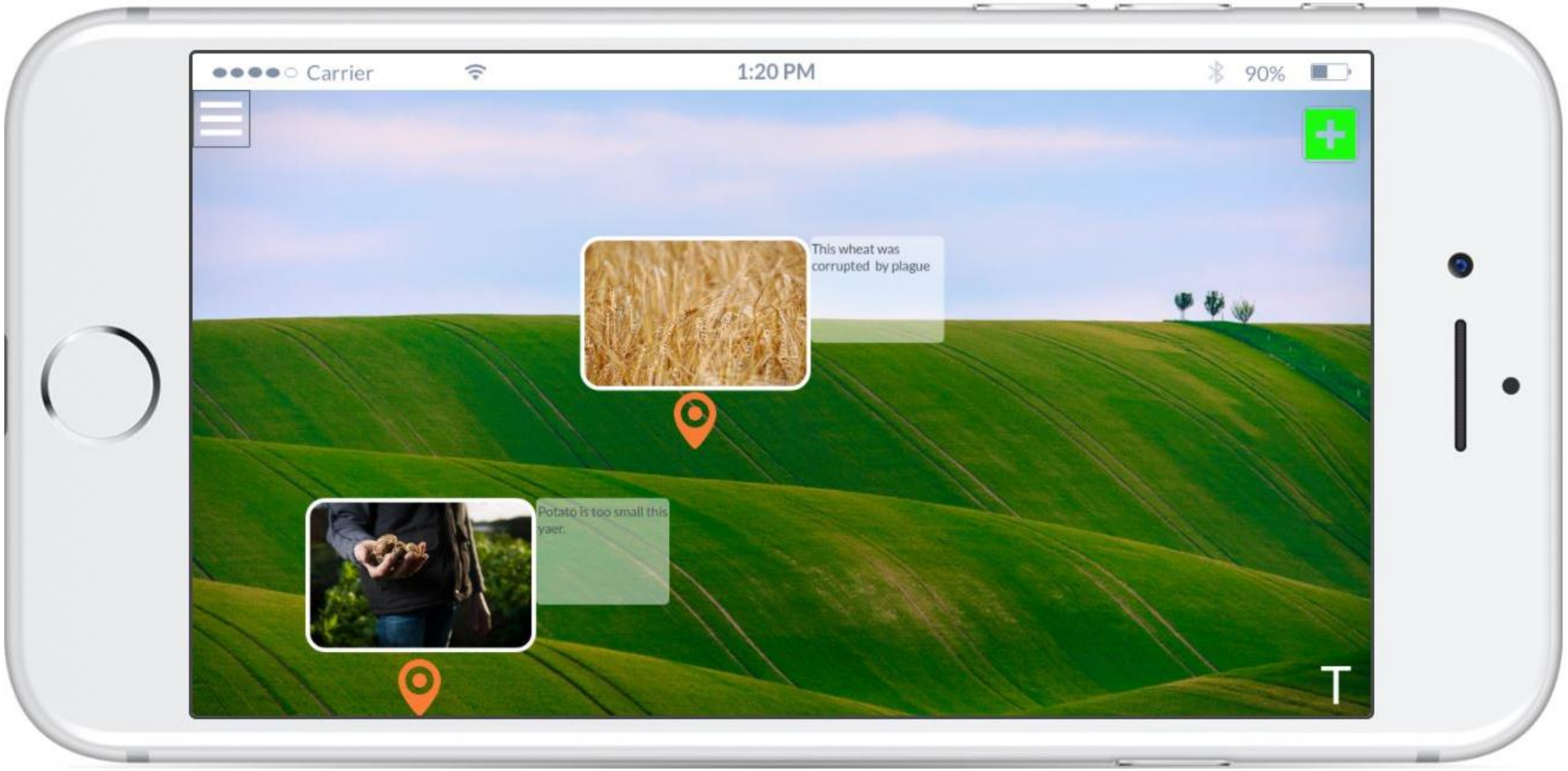
OUTPUT

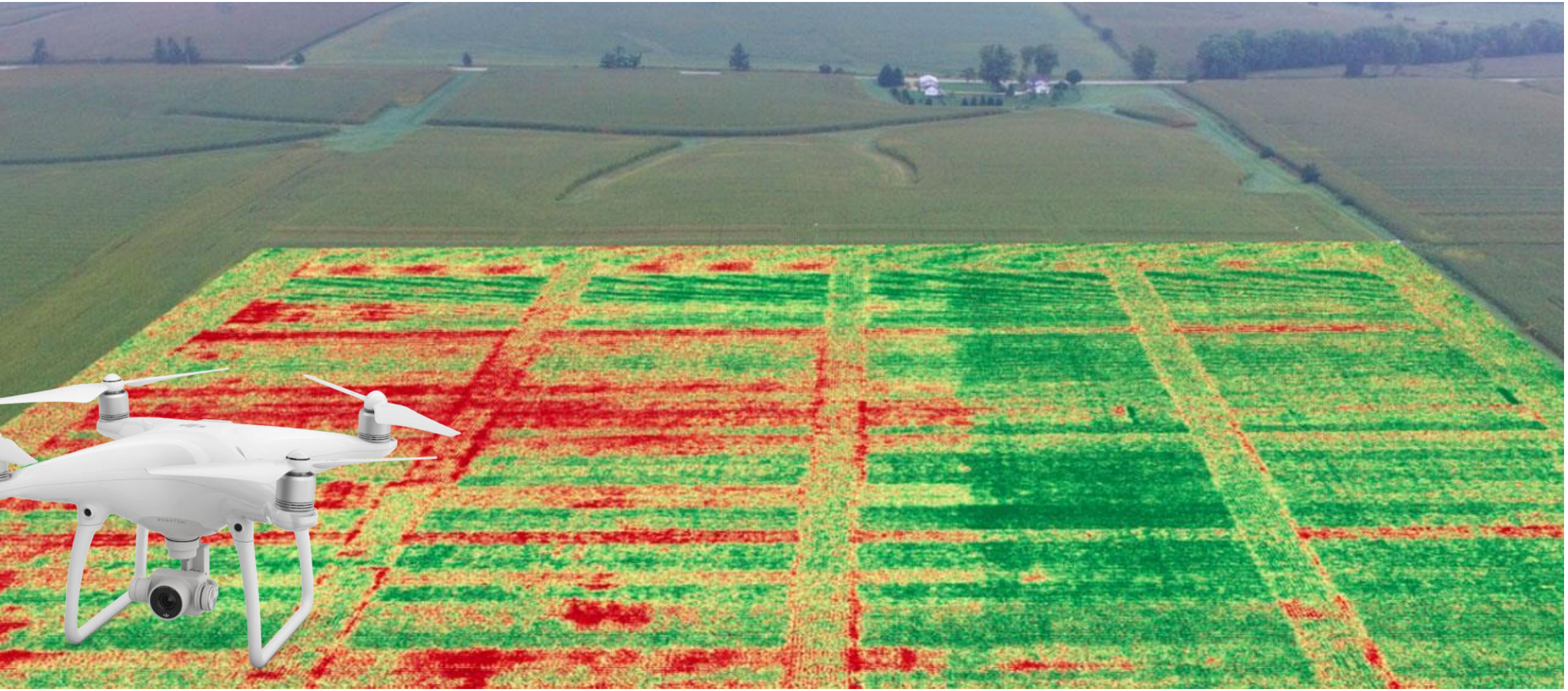
- 3D AR geoTAGs (location based)

https://youtu.be/hEu5--6KI0M


15% yield increase
30% chemical reduction
30% less disease
20% less weed
50% less environmental foot print

User generated geoTAGs (training data)



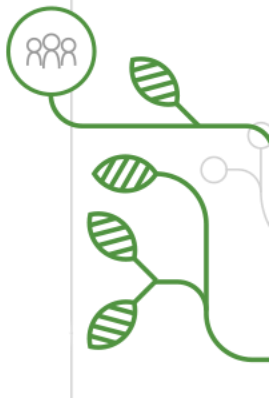


Thank you!

www.create4D.com

create4D_AI_AR



opernicus
ECOSYSTEM
WORKSHOP 2018
BRUSSELS, 9+10 OCTOBER