



# FORUM Think Tank Basilicata

Energie per un futuro sostenibile

Matera, Palazzo Viceconte 30 gennaio 2019

# PRESENTAZIONE DI MASSIMO CLAUDIO COMPARINI



CONOMY

MINING, SUF

### SPACE STATIONS

Manned space stations can be used for manufacturing, strategic management outposts for businesses, refueling and tourism.



### **PROBES**

messengers of supply chain risks and

NEED.

as a source

roid is about

oit near earth

### **A Space Journey**

from the moon to new paradigm of space economy and services space technologies to the service of our society in the hyper connected era

### Massimo C Comparini

e-GEOS – Chief Executive Officer **Telespazio – Director Line of Business Geo Information Chairman - Space Innovation in Italy** 

### @massimoC\_square

### SATELLITES

2013 SPACE ACTIVITY

### JUNE 2014

Strong Investments in sytalities will create the messengers of supply







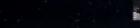
AGRICULTURE



The lunar surface has the

human life - air and water can be derived from

### **PROBES**



Space mining would reduce the

### MARS



EYES ON THE EARTH

Massimo c comparini

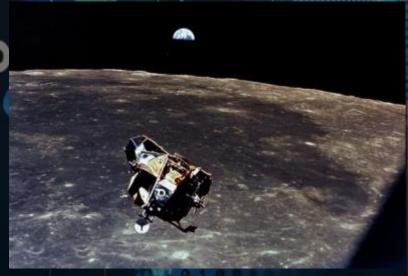
@massimoc\_square

2025

## THE SPACE SECTOR ...

... always regarded as highly strategic, beyond what its economic and industrial dimension would allow nowadays put forward by emerging regional / global powers. First developed in the ex USSR and USA, still the dominant player(s) today, then in the main European countries (among them Italy, 3<sup>rd</sup> country in the world to put a satellite in orbit), today strong expansion in many other countries and new space powers (China, India, Korea, ...)







### THE SPACE SECTOR ...

- The acquisition and development of space capabilities remains a highly attractive strategic goal and the number of countries and companies investing in space technologies, space systems and their downstream applications continues to grow. Space often has a reputation for being expensive, but national investments represent only a very small percentage relative to GDP in all G20 countries.
- The global space sector is a high-technology niche with a complex ecosystem, which employs about a million persons around the world including public administrations (space agencies, space departments in civil and defence-related organisations), the space manufacturing industry (launchers, satellites, ground systems); direct suppliers to this industry (components), and the wider space services sector (commercial satellite telecommunications, navigation and raising earth observation).



## **Space Democratization - #space4sdgs**

- Decreased costs, increased capabilities and path breaking innovations
- earth observation satellites more relevant to businesses and public good
- The ability of satellites to transform businesses and quality of life today is more relevant than ever, space technologies expand at an exponential speed
- This dynamic is known as "democratization of space',



New space race where the players, technology, and services are as diverse as it is innovative and space technologies contribute to a sustainable development of our planet

## The Space Sector – from exploration to SDGs

The Space sector has contributed to open new technological frontiers due to the extreme and demanding nature of operating in deep space environment as well as tofay's to address new missions amd innovative requirements and new markets (space assets themselves, "fall out" markets)







**Health Assessment tool** 



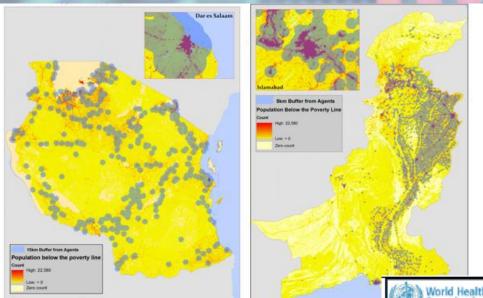
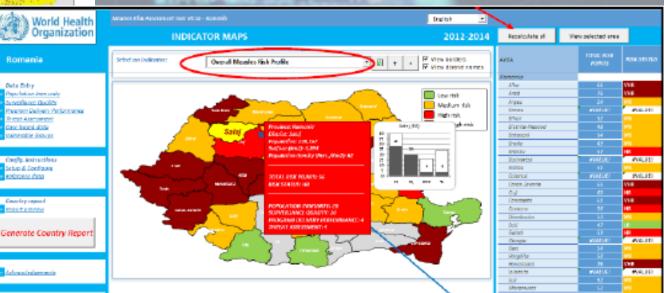


Figure 4: Spatial distribution of poor people relative to mobile money agents in Tazania

Figure 5: Spatial distribution of p network of mobile money agents

### Map of poverty



Care based above Mainmobile Groups Confly, instructions

School & Configure



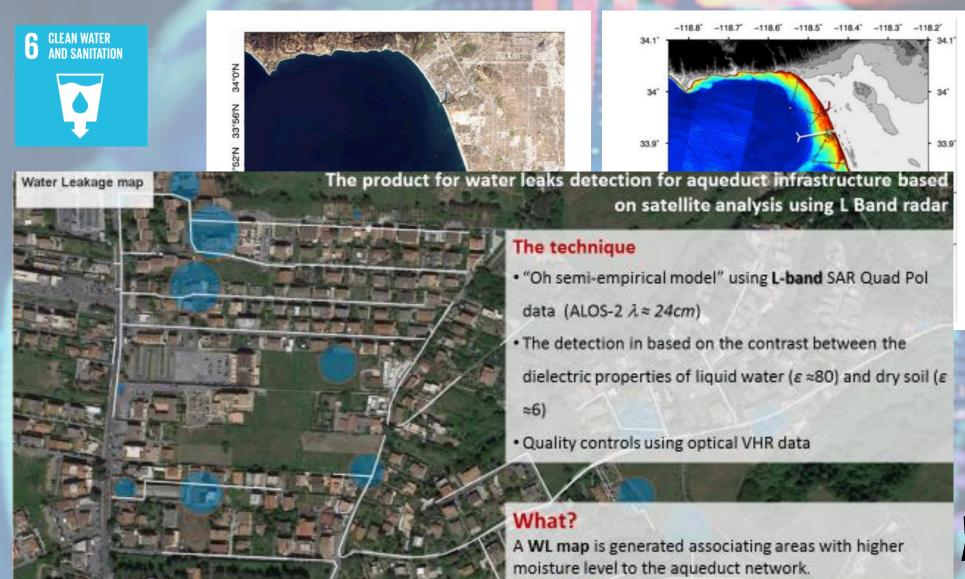
sustainable and productive agricolture AGRICULTURE AND FOOD PRODUCTION

AgriGeo

For supporting governments and farmers in the management of the agricultural and food activities, as well as the crop lifecycle

- Precision farming analysis
- Crop monitoring reports, acreage and crop yield assessment, for early estimation, analytics monitoring services
- Agro-Environment Geo-Information Products
- Services of crop monitoring for claim management, funding\subsidies management, production processes





Water quality assessment

Water leakage



8 GOOD JOBS AND ECONOMIC GROWTH

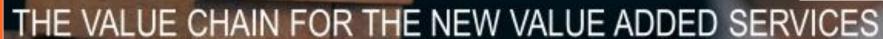


9 INNOVATION AND INFRASTRUCTURE

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EO innovative services to address down stream space economy



More value addition/processing to the raw data



Services for Financial user comunity

Value Added Services

Data



Big EO Data in Agricutture, are transforming the use of EO data

Emergency Response Disaster recovery how EO and social Data became part of the rapid mapping and information process

Massimo C Companni - Ground Services for Constellations Telespazio Workshop June 2018



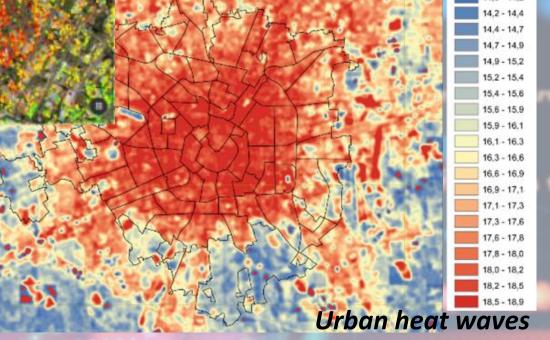


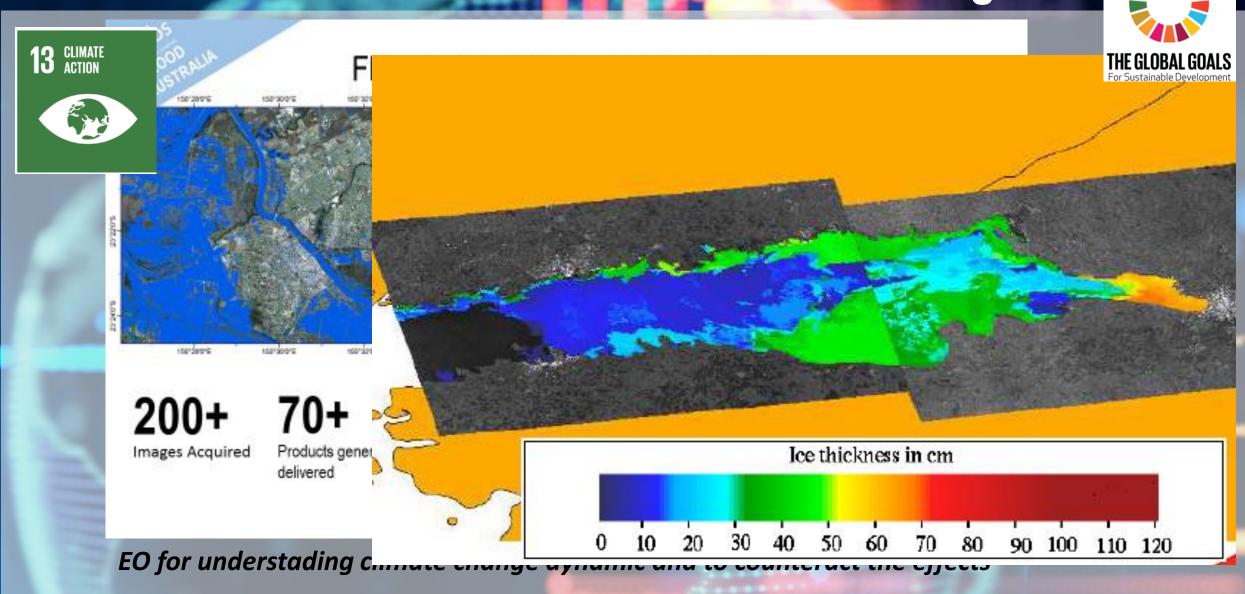
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13 CLIMATE ACTION

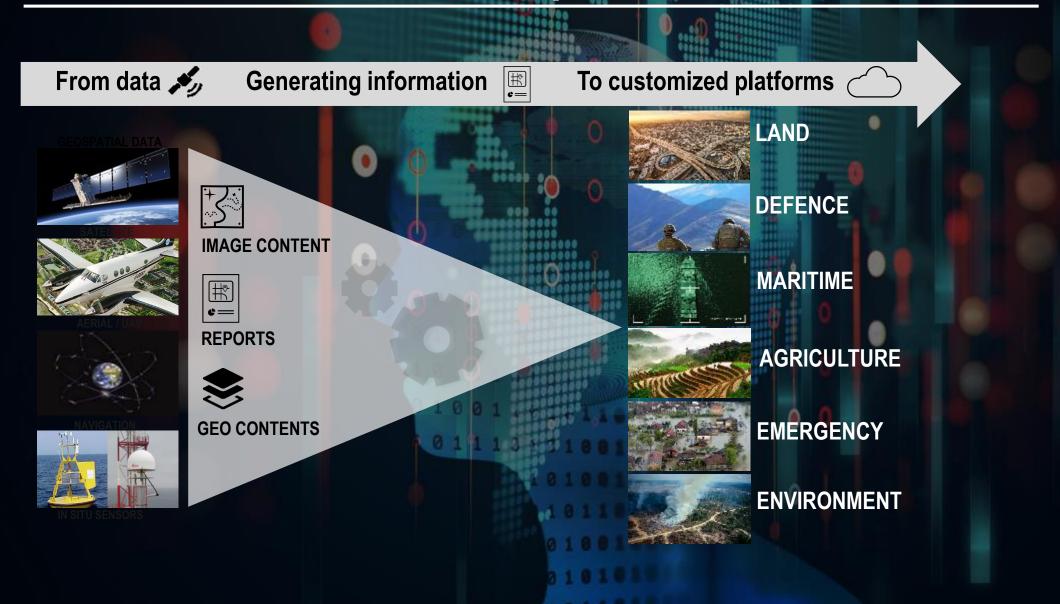




EO for understading climate change dynamic and to counteract the effects



## **Space and Democratization**



## **Space and Democratization**



**Generating information** 



To customized Information Products and BDA



Orbital Insight Data Now Available on the Bloomberg Terminal

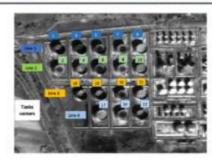
Bloomberg Terminal solution and account of the control of the cont

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"The financial services ind source that brings addition integration, we can better

Subscribers can download traditional investment metr

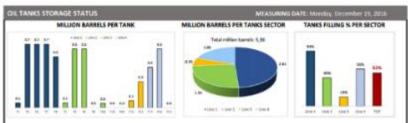
### REPORT ON REFINERY OIL TANKS STORAGE - WEEK 51/1



### TANCS 17

| DESCRIPTION | DOCUMENT U. 2016
| MARKURE TOME | DOCUMENT U. 2016
| MET TANCS 17
| MARKURE | Document St., 2016
| Docume



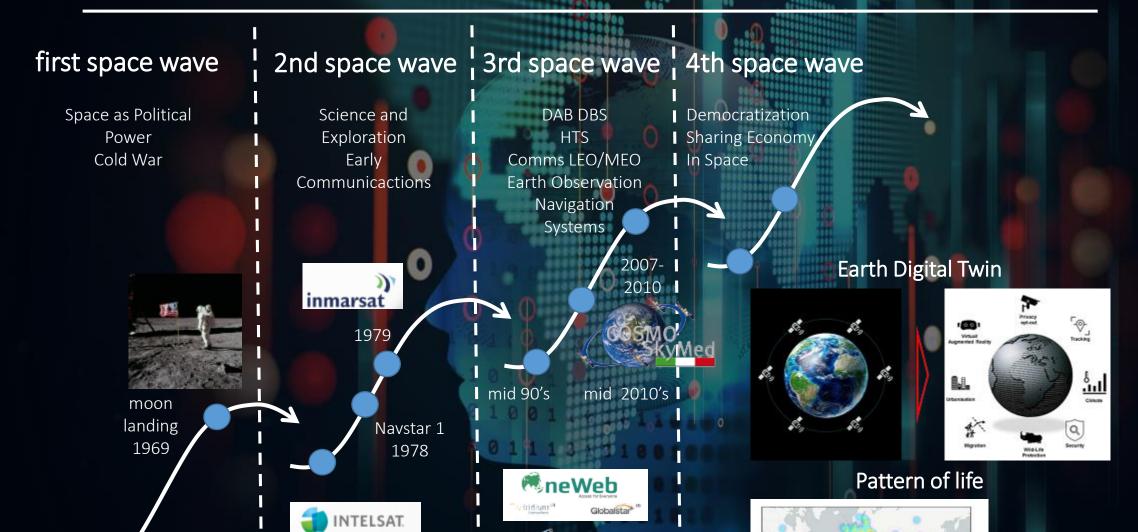






## **Space Democratization**

ocalized sentiment and stability analysis hea sed on changes in food, water, energy and







JFK Speech

1962







## **EYES ON THE EARTH**