







GEOINFORMATION













GEOINFORMATION IN NUMBERS



INTERNATIONAL MARKETS 80%



DOMESTIC MARKETS 20%

10+
SATELLITE MISSIONS
DATA ACQUIRED.

70millions
AGRICULTURAL PARCELS

750+
MARITIME REPORTS/ YEAR

100m €+

10+

COMMERCIAL USER TERMINALS AROUND THE GLOBE

4100+
MAPS PRODUCED
IN 4 YEARS

360+
ACTIVATIONS OF THE e-GEOS
EMERGENCY MANAGEMENT SERVICE

500+



GEO-INFORMATION HUB



DATA

OPERATOR



















ACCESS HUB



SERVICES AND PLATFORMS PROVIDER















- As a service
- On premises







Geodesy

сотпрану интегнаг

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THE SPACE SECTOR

- 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 to specific mission innovative requirements and new markets (space assets themselves, "fall out" markets)
- Today Space sector through the broad range of services available represents a fundamental infrastructure to monitor the Earth, its evolution in all the mega trends and challenges and to monitor pattern of activities













Space Democratization - #space4sdgs

- Decreased costs, increased capabilities and path breaking innovations
- The ability of satellites to transform businesses and quality of life today is more relevant than ever, space technologies expand at an exponential speed
- Communication satellite in LEO and GEO orbit key foundation for hyper connected economy and IoT
- Earth Observation satellites more relevant to businesses and public good
- 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

WE SCAN THE EARTH

THE SPACE SECTOR ECONOMY



The latest technological innovation for data-hungry nedge funds is a fleet of five dozen shoe-box-size satellites.

A company called Planet Labs Inc. has launched a small constellation of what it calls "cubesats" that can deliver much more frequent imagery of economically sensitive spots than traditional satellites. Those spots include retailers' parking lots, oil-storage tanks or farmland.

The company, founded by three former NASA scientists, has now signed an agreement to supply data to Orbital Insight Inc., which mines satellite imagery for trading tips

Until now, Orbital has relied on monthly or bimonthly imagery for its analysis. The deal with Planet Labs will give them access to weekly images

Next year, if Planet Labs succeeds in a plan to launch an additional 40 or so cubesats, Orbital will have access to daily images of every piece of land on earth.

"Almost all economic activity is change," said Jimi Crawford, a former Google execu-



L'accordo di italiana ne

Tiny Rover

to increase the availability

space

By News Desk - July 18, 2018





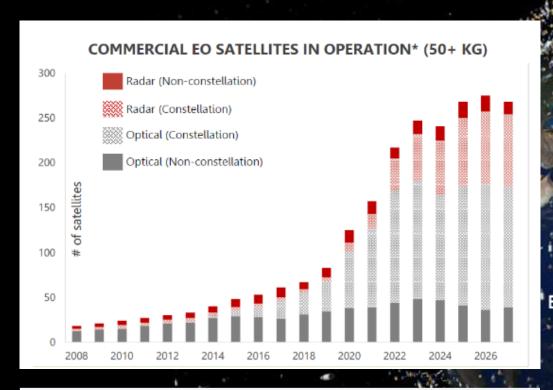


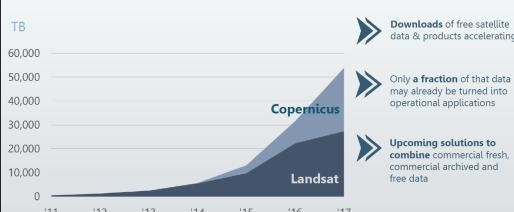






Geo Spatial paradigms and Business Models are fast changing





Despite delay in some announced programs the number of EO satellites in orbit and the corresponding amount of generated data starts to grow fast



Use of EO data is exponentially growing and large potential through analytics exists to feed new information driven services



≈100 kilos

Geo Spatial paradigms and Business Models are fast changing

- Data, more and more, are just a part of the game
 - High temporal resolution to complement high and very high spatial resolution sensors
 - Federation of space assets through smart multi missions tasking platforms
- EO data definitive entered in the wider Big Data Analytics & IoT game
- Convergence in the data analytics and Al business for the EO
- Advanced algorithms, ML/DL/AI techniques are essential to address the Information driven market push for timely delivery of reports/insights















AI4EO – from Imagery to Information Reports



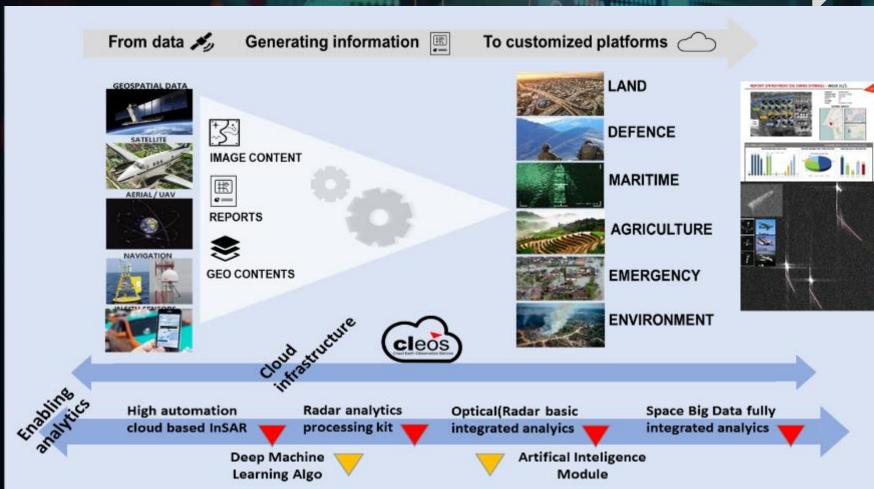
Generating information



To customized platforms









THE EO BIG DATA GAME

GEO Big Data + IA + Analytics are changing the game in the data consumption

Al

Machine
learning

Deep learning

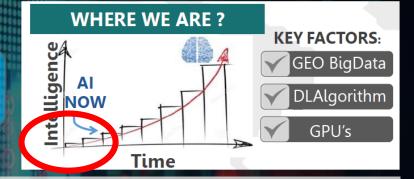
Self Program

Automated action

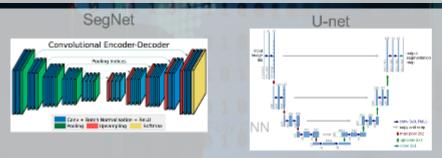


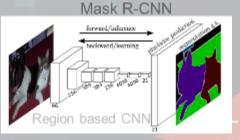
Predictive Analysis

Prescriptive Analysis



- Big Players are envisaging a role to the Geo-Information Analytics driven solutions in their business model and they plan significant investments
- New information driven markets (big data, data analytics apps) drive increase in revenues for sat operators
- Industrial landscape is going to have a strong evolution with consolidation in place and a growing strong momentum in the evolution of partnership models

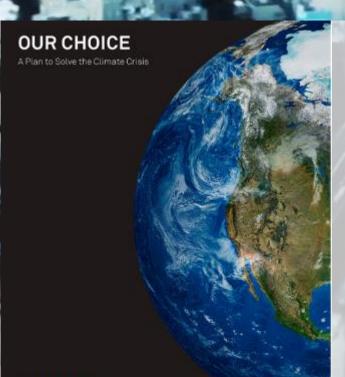




geos







Thanks to the increasing availabitly of data and to the new revisit time offered in both radar and optical domain, we can answer to much more questions that in the past.

The challenge is

- to design advanced algorithms taking advantage of Al techniques,
- to process big data and to generate info reports for each vertical,
- to conceive and to realize IT infrastructure for data and services dissemination through advanced business models



EYES ON THE EARTH

