

Trends for the Geomatic Industry

Mundo Geo 2011

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Preliminary Remarks



- Focus on Optical Data and related Services/Solutions
- Viewpoint of a newcomer in the market
- Just a few thoughts, no attempt to be exhaustive



Significant growth during the next decade

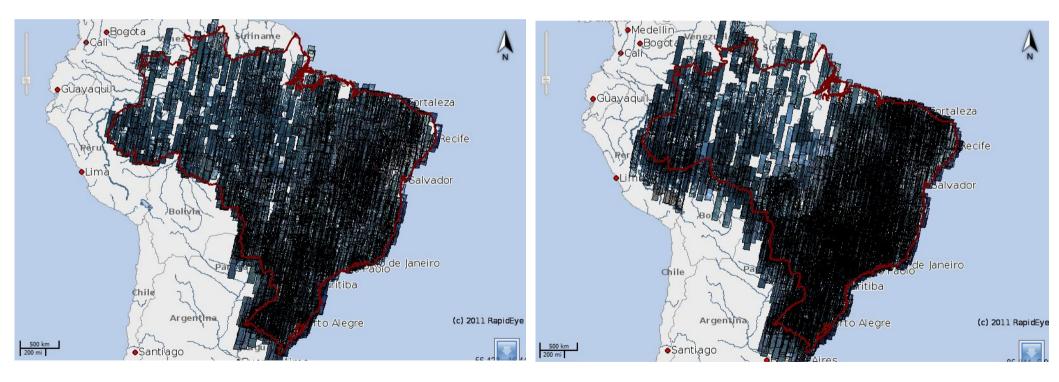
- Growing population
 - Increasing demand for food
 - Available farmland
 - Productivity
 - Increasing need for infrastructure
- Environmental changes and challenges
 - Need for monitoring
 - Need for sustainability
- Increasing number of emergencies
 - Natural catastrophies
 - Local and regional conflicts
- Increasing "geo-awareness"



- Past: "Can I get data"
- Future: "Can I get the RIGHT DATA at the RIGHT TIME"
- Diversification and specialization of data supply
 - Spatial resolution
 - Temporal resolution
 - Spectral resolution
 - ==> More + more diverse sensors



RapidEye's Coverage of Brazil (< 10% cloud cover)</th>20092010



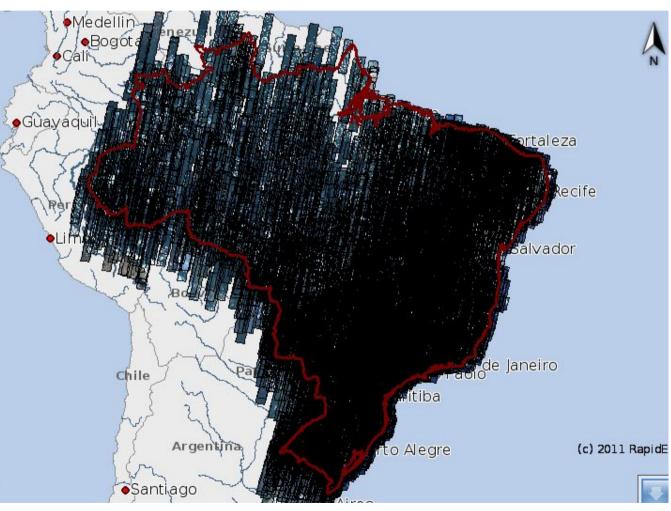


RapidEye Coverage of Brazil

- In 2 years almost full coverage
- Most areas with multiple coverage (several times per year)

We know a lot about your country ...

... and it is available to you

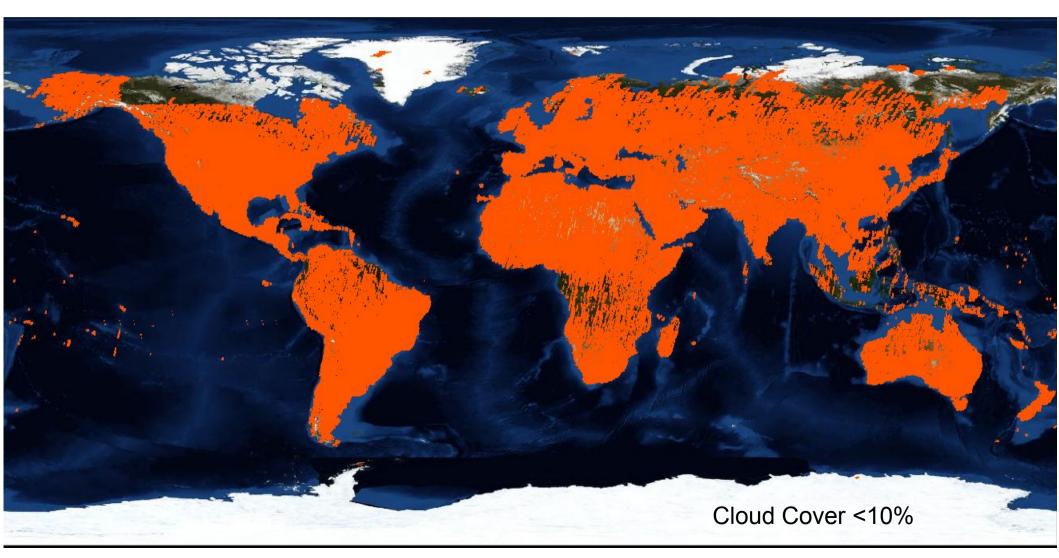




- Temporal Resolution allows for
 - Repeat coverages in a short period of time
 => Detection of changes
 - Timely coverage when needed
 - ==> Qucik response to urgent matters (emergencies, etc.)
 - Fast coverage of large areas
 => Complete facts not samples



RapidEye's Global Coverage since Feb. 2009

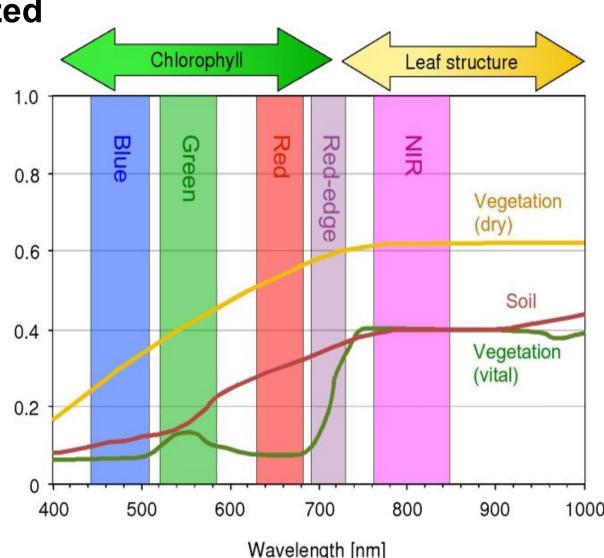


"Right Data" – Spectral Resolution



RapidEye system optimized for analysis of biomass

- **FIVE spectral bands**
 - **Plants have spectral** signatures which can be identified with those 5 Reflectance [%] bands
- RapidEye first commercial system with Red-Edge band
 - Useful to monitor vege-tation health, improve species separation and measure Chlorophyll, **Protein and Nitrogen** content



"Right Data at the Right Time"



Earthquake in Japan





Matsushima Bay – Miyagi Prefecture

September 10, 2010

March 13, 2011



- With increasing supply and growing competition "Customer Service" a key differentiator in the data market
 - Accessibility
 - Cost of data
 - Cost of "value-adding"
 - Responsiveness (understanding of needs, speed of delivery)
 - Customer care





- "Customer Service" as key differentiator: RapidEye answers
 - Accessibility ==> Online catalog ("EyeFind")
 - Cost of data ==> Aol, not fixed "scenes" (you buy what you need)
 - Cost of "value-adding" ==> Level 3A at no extra cost
 - Responsiveness
 - Customer care

 Strong partner:
 Santiago e Cintra Consultoria Own presence



Data ==> Solutions

- Customers increasingly asking for solutions to business problems
 - Data issues (technical issues, acquisition strategy and problems, etc.) less relevant
 - Usefulness of solutions critical
 - "How can remote sensing help to solve my (business) problem?"
 - "What is the value of your solution to me?"
- Increasing complexity of solutions

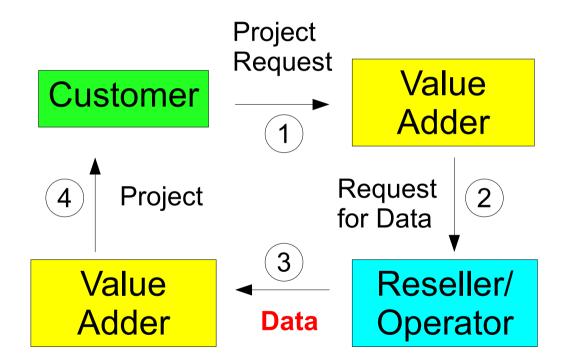


Solutions ==> Services

- Increasing demand for sustainable services to support business processes and management decisions
 - Reliability
 - Data availability
 - Quality, "fit"
 - Data
 - Processing
 - Usefulness
 - Customization



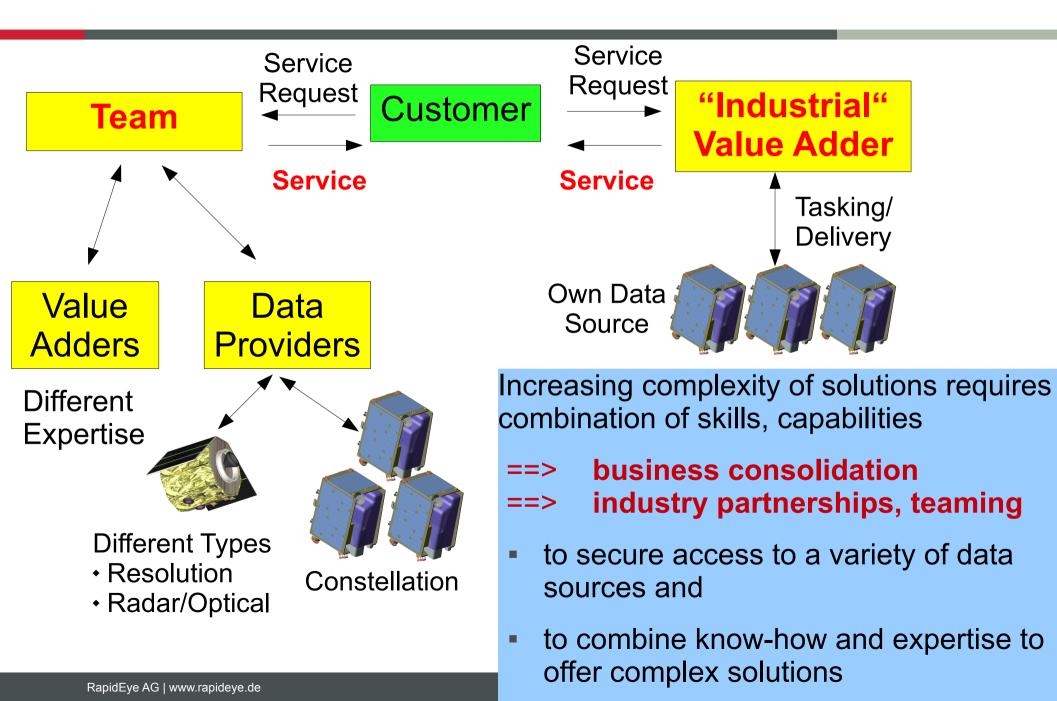
Traditional Business Model



- Focus on specific (one-time) issues ==> Projects
- Availability and cost of data critical
- Manual analysis work dominant

Trend No. 4: Business Transformation





RapidEye's Position



Unique data source

- Frequent and reliable supply of optical data (==> constellation)
- Fast, repetitive scanning of large areas at high resolution
 (> 4 million km², 5 m pixel size, multi-spectral)

Large team of experts

- Integrated solutions/services: Focus on agricultural, forestry, environmental and change detection issues
- Strong partners with local knowledge and expertise
 => Brazil: Santiago e Cintra Consultoria

THANK YOU!

Wolfgang G. Biedermann

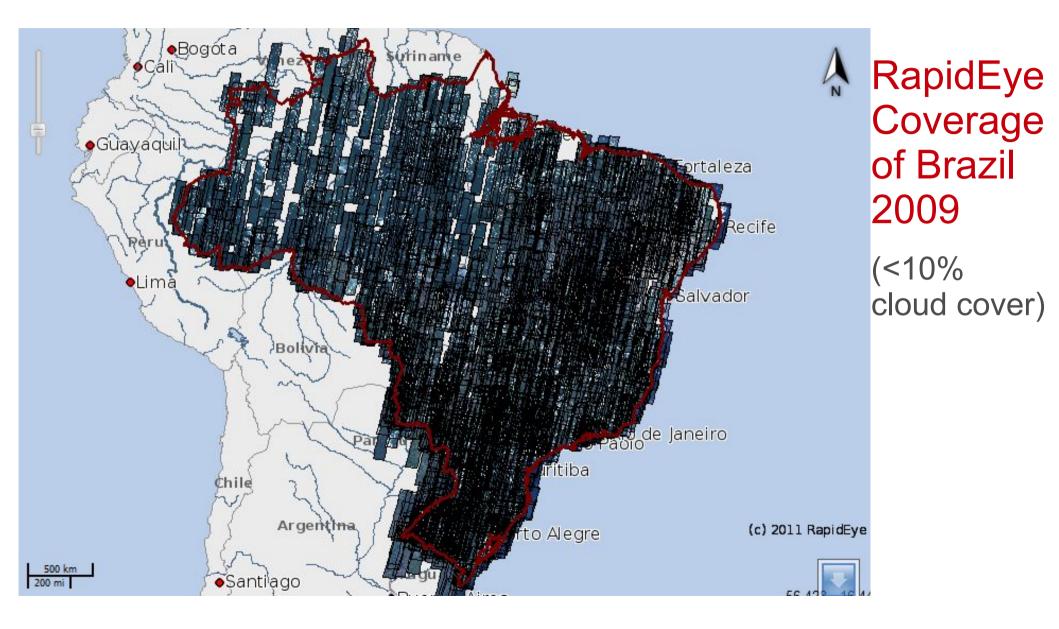
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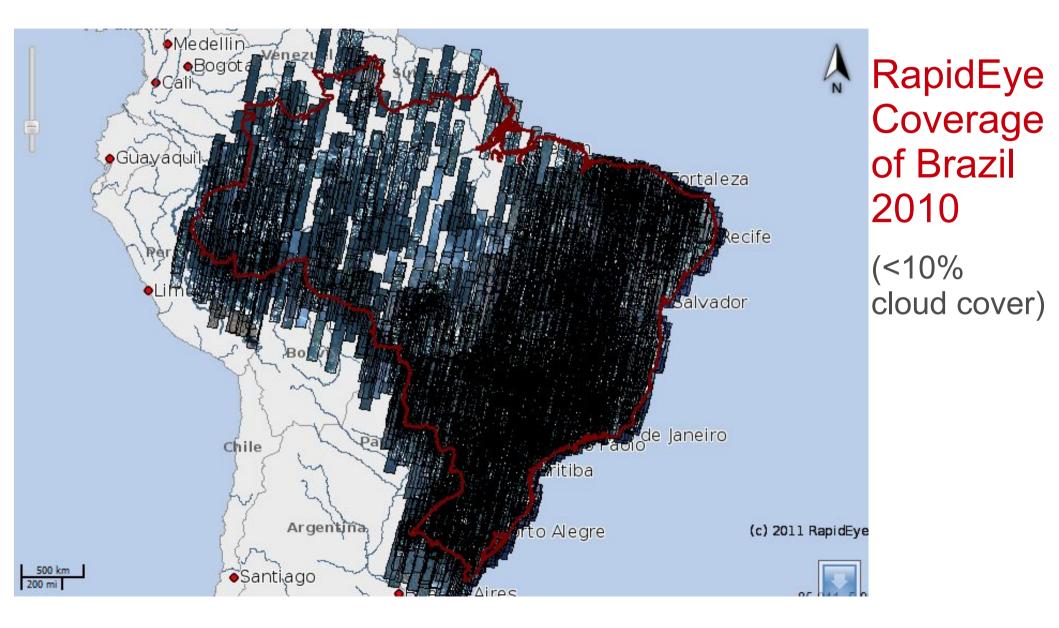
"Right Time" – Temporal Resolution





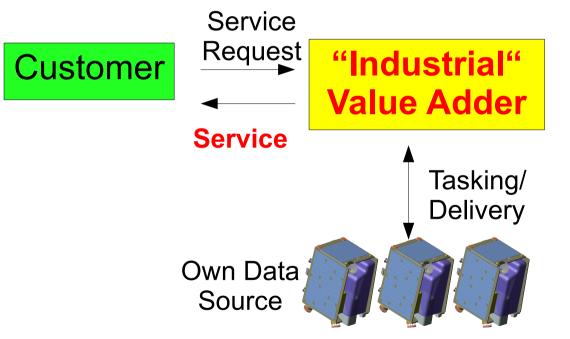
"Right Time" – Temporal Resolution







... may be replaced by "industrial" Solutions Provider ...



- Customers require strong, professional partners
 - Control of reliable data source
 - Development of customized solutions (modular approach)
 - Highly automated generation of services

Trend No. 4: Business Transformation



Service ... or a Team Approach Request Team Customer **Service** Increasing complexity of solutions requires combination of skills and capabilities Value Value Value ==> business consolidation Adder 1 Adder 2 Adder n ==> industry partnerships to secure access to a variety of data sources and Different Expertise to combine know-how and Constellation expertise to offer complex **Different Types** Resolution solutions

- Radar/Optical
- Etc.