



# Netherlands Space Office

**NSO and Space Big Data**

**Nico van Putten**

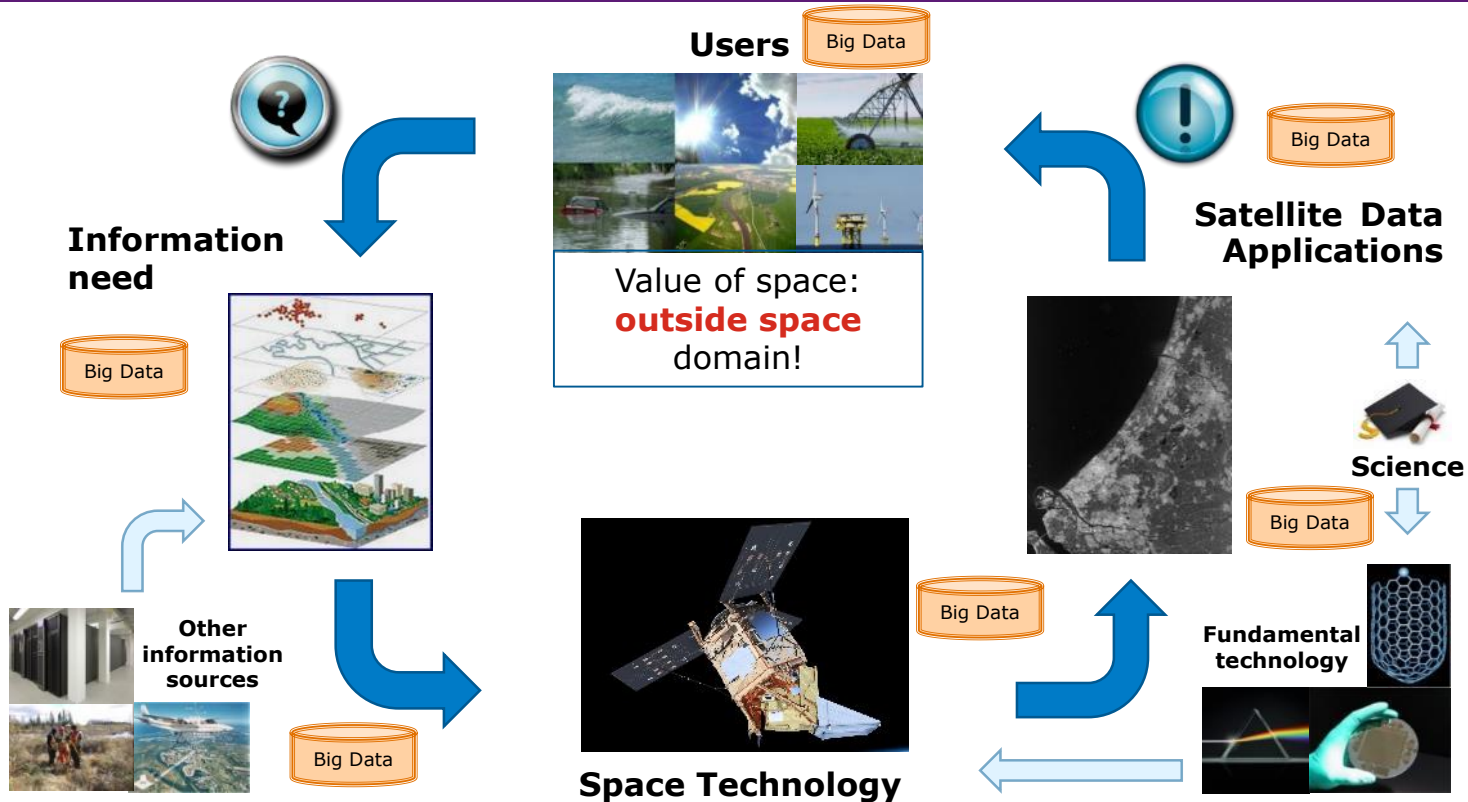
**20th EISC Plenary, 15-16 October 2018**



# Space Value Chain

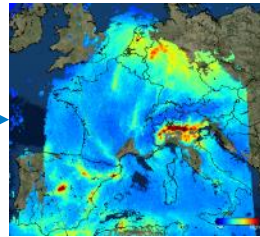
==

## Demand-driven space policy





# Space Big Data for policy areas



Satellite Big Data



Other Big Data



**Information!**

*Technical issues*  
*Knowledge issues*

*Economic issues*  
*Legal issues*





# Space Big Data issues

## Technical issues

- Space data collection
- Data processing chain
- From data to information

## Economic issues

- Value created outside space
- Value of information
- Public – private / Institutional – commercial

## Knowledge issues

- Domain expertise needed
- Data science, eScience
- Intellectual Property

## Legal issues

- Ownership, exclusivity, availability
- Open data
- Security, privacy



# Research project: focus on Legal, policy issues

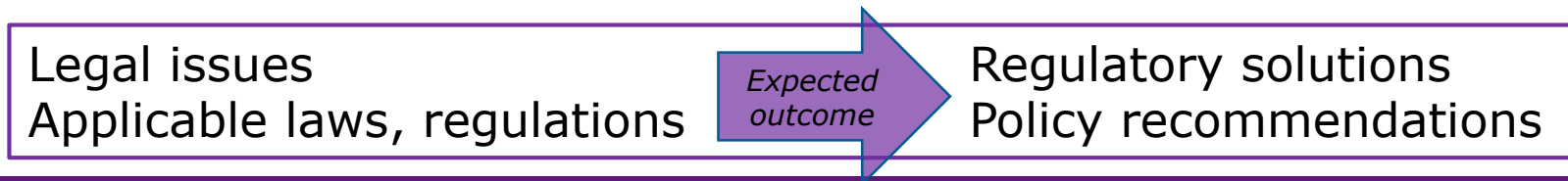
Research questions:

- What is space big data?
- What are the benefits from the use of space big data?
- Current laws/regulations regarding space big data?
- Relevant legal challenges?
- Open data and limitations?
- Policies for maximizing benefits of space big data?



# Research project motivation

- Much progress on technical issues, but legal and policy issues are much less addressed
- Be prepared for the 'space big data age', for all public and private applications
- Need for clarity on security and privacy issues
- Why do space big data need special (legal) regulations?
- More benefits of space big data for society and policy
- More benefits from space for global societal challenges, e.g. SDG's
- Stronger (commercial) space sector







# Netherlands Space Office

Thank you for your attention!

[n.vanputten@spaceoffice.nl](mailto:n.vanputten@spaceoffice.nl)