

Commit2Data: A Status Update

Boudewijn R. Haverkort
Chairman Commit2Data

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Commit2Data "Pinkpaper" (Nov. 2015)

- ***Fundamental research*** on big data handling and analytics
- ***Use-inspired research*** on big data and its applications in the top sectors (e.g., energy, logistics, industry, health, agro)
- ***Cross-sectoral inspiration and cooperation***
- An ***improved pipeline*** from fundamental research to application



Three Activity Lines in Commit2Data

Fundamental and Use-Inspired Research (NWO)	Valorization (TNO, NWO)	Dissemination
Multi-annual strategic PPP	Shorter transfer projects	Short projects
New knowledge and use in high-tech companies	Transfer of knowledge to high-tech companies	Dissemination
4-5 year	6-24 months	1-5 months
Projects in consortia	1-on-1 projects	Hands-on in data factories
Universities, industries, TNO, CWI, NLeSC	Industries, TNO, HBO, universities, CWI, NLeSC	Industries, TNO, HBO, universities
Private matching 30-50%	Private matching 50%	Private matching 20%

Fundamental and Use-Inspired Research

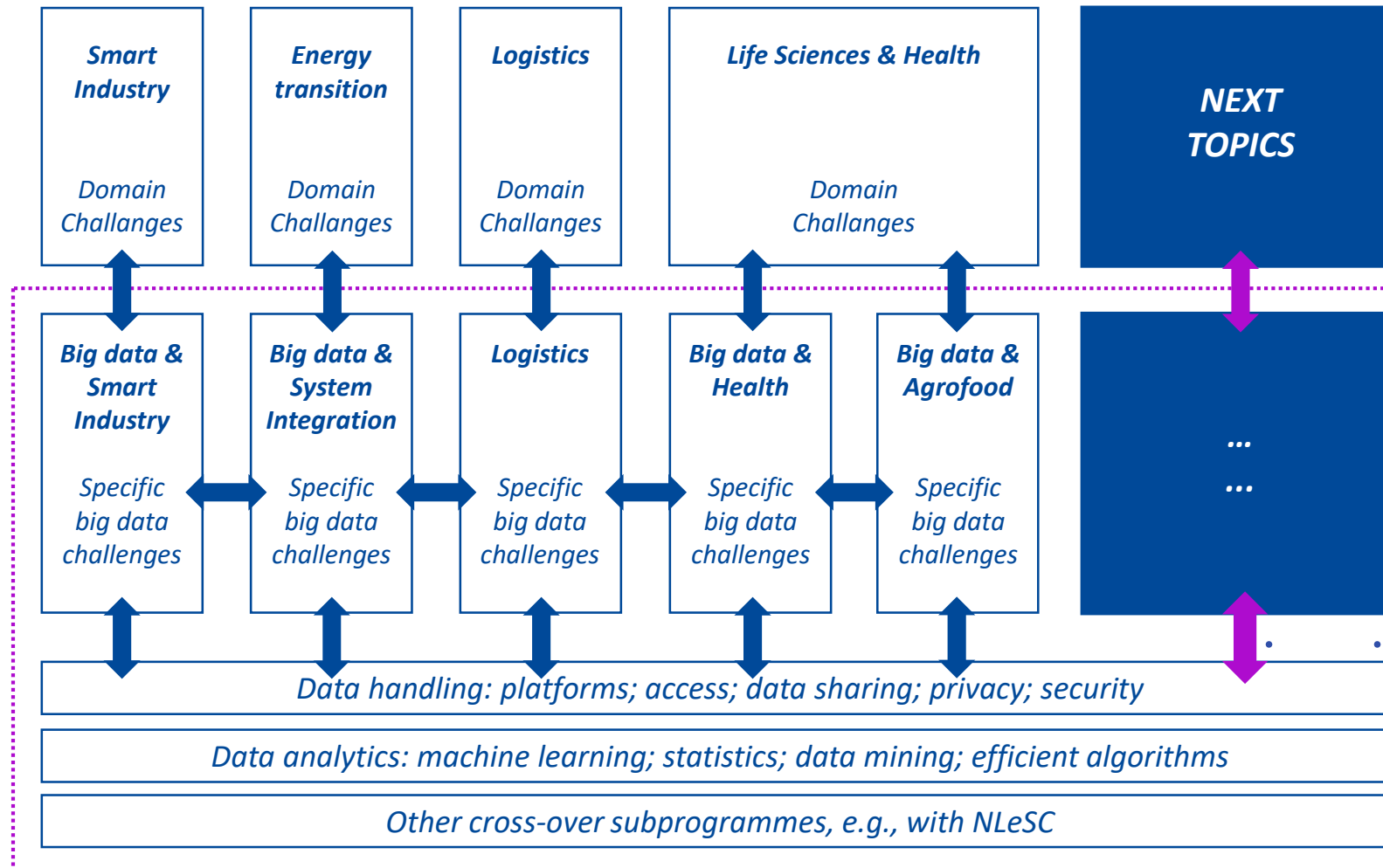
- There will be **large number of NWO calls** on big data and its applications:
 - in which private parties co-invest
 - supplemented with aligned activities of TNO, CWI, NLeSC
 - strong focus on use-inspired research along the lines of the top-sectors
 - supported by cross-sectoral fundamental research on big data handling & analytics

NWO budget (2016-2020): 41 M€



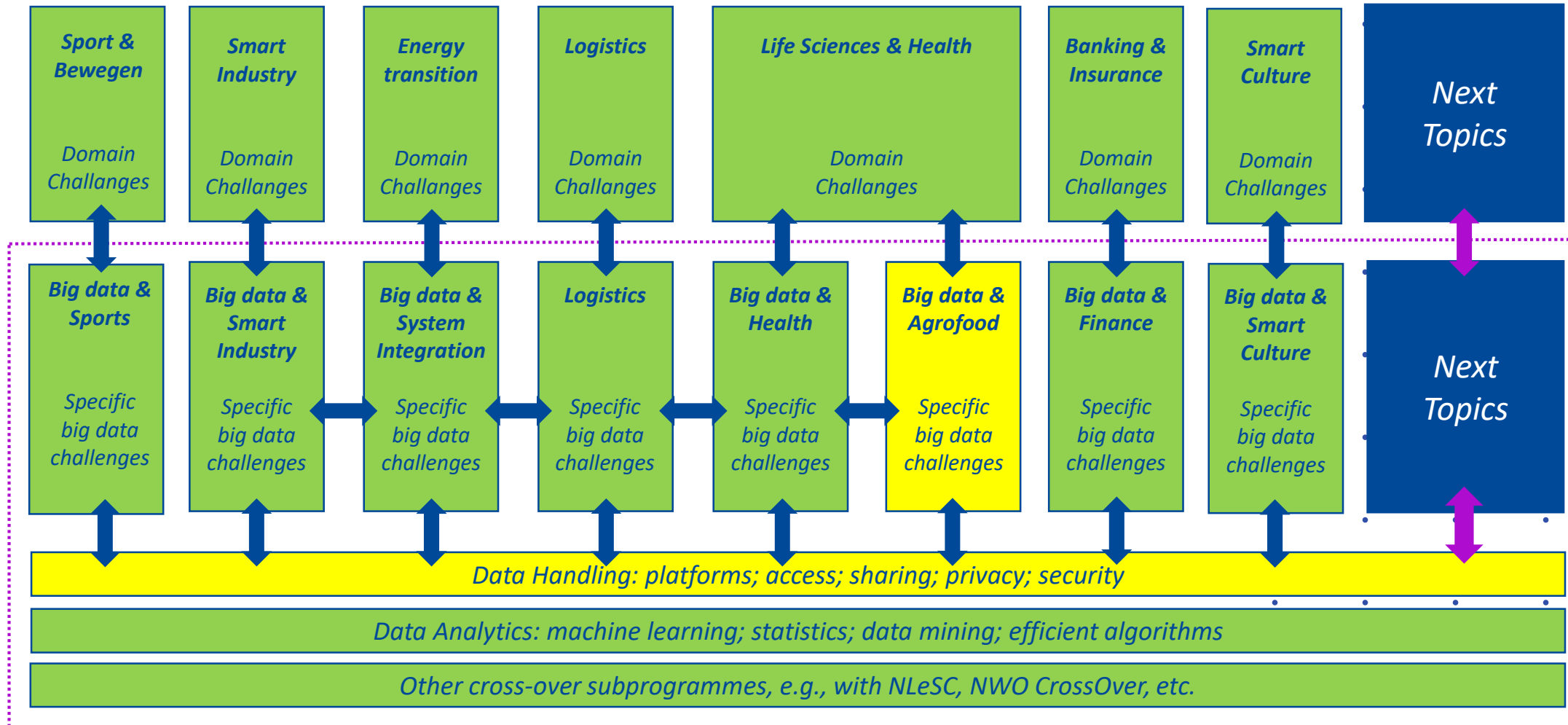
Commit2Data Research Plan

Verticals:
Top sector
Use-Inspired
Research



Commit2Data NWO Research **Realization**

Verticals:
Topsector Use-Inspired Research



Status Calls & Projects (NWO, March 2018)

ACTIVE

IN DEVELOPMENT

Subprogram	(Top)sector	Public	Private	#Projects
Banking & Insurance	Finance	500K	500K	1
Logistics	Logistics	3.2M	1.2M	6
Smart Industry 1	HTSM	3.75M	1.1M	6
Smart Culture	Creative industry	1.5M	150K	3
Energy	Energy	3.85M	1.6M	6
Big data analytics	Various	3M	1.5M	5
Health-1	Life Sciences & Health	5.5M	2.2M	10
Sport & Bewegen	Life Sciences & Health	1.7M	0.7M	4
Health-2	Life Sciences & Health	7.5M*	2M	*incl. NLeSc
Agro & Food	AF & TU	4M	1.2M	High-tech to feed the world
Safe & Secure Data Sharing	Various	5.5M	1,65M	Dcypher
Smart Industry-2	HTSM	4M	1.2M	
New Themes				
Total		44M	13M	

Status Projects (TNO, March 2018)

Subprogram	(Top)sector	Public	Private	#Projects
Smart Industry	Smart Industry	1.76M	1.64M	3
Smart Industry	ICT	5.69M	340K	5
Energy	Energy	600K	600K	2
Total		8.05M	2.58M	10

All Commit2Data projects are/will be shown on the Commit2Data site:
<https://commit2data.nl/projecten>

Smart Industry & Big Data: Six Projects

- 16 PhDs, 3 post-docs
- 1 programmer, 1 PDEng
- 3 x predictive maintenance
- 1 x precision manufacturing
- 2 x personalized production

- Rijksuniversiteit Groningen
- UMC Utrecht
- Universiteit Leiden
- TU Delft
- Universiteit Twente
- TU Eindhoven
- CWI

- Philips Drachten
- Photonics
- Tata Steel
- OSISoft
- KxA Software Solutions
- DevControl
- S[&]T Corporation
- Zimmer Biomet
- MRIGuidance
- Xilloc
- ProtoSpace FabLab
- Clinical Graphics

- Bata Protective
- Philips HealthTech
- N-Size
- By-wire.net
- Van Puijenbroek Textiel
- Air France – KLM
- Honda Research GmbH
- Tata Steel
- M2i
- SemioticLabs
- Prorail
- NedTrain

- 3.75 M€ NWO
- 562 K€ in-cash
- 562 K€ in-kind
- **4.87 M€ total**

Logistics & Big Data: Six Projects

- 13 PhDs
- 6 post-docs
- 5 TNO staff

- University of Amsterdam
- TU Eindhoven
- Tilburg University
- VU Amsterdam
- TU Delft
- University of Twente
- CWI

- Air France KLM
- Amsterdam Smart City & Datahub
- CIENA Networks
- Smartport
- Port of Rotterdam, Portbase
- TLN
- NS (NedTrain)
- Fokker Services
- Philips
- ABNAMRO
- ING

- Container Centralen Benelux BV
- CTAC
- Den Hartogh Logistics
- European Supply Chain Forum
- H&S Group
- Jumbo Supermarkten
- MMGuide
- ORTEC
- SCA Hygiene Products
- Wuunder Nederland
- Locus Positioning BV

- 3.735.613 € NWO
- 1.141.000 € private
- **4.876.613 € total**

- Ahrma Holding BV
- Innovadis BV
- Cape Groep BV
- Datacadabra BV
- Ovis Telematics BV

Data Handling & Big Data: Five Projects

- 11 PhDs
- 5,5 post-docs

- VU Amsterdam
- TU Eindhoven
- University of Utrecht
- University of Groningen
- CWI
- University of Leiden
- TU Delft
- Radboud University

- Honda
- Qualogy
- Lumc
- Greenchoice
- Parkinson Vereniging
- Vitens
- Anchormen
- FUGRO
- HERE
- Lunet zorg
- Databrick
- Neo Technologies

- OBI4WAN
- Spinqe
- WizeNoze
- TNO
- NDW

- 2.999.660 €
NWO
- 711.500 €
private
- **3.711.160 M€**
total

Energy & Big Data: Six Projects

- 6 PhDs
- 9 post-docs

- TU Delft
- TU Eindhoven
- CWI
- Universiteit Utrecht
- Wageningen UR
- University of Amsterdam

- Enexis
- ICT Automat. NL
- SynerScope
- Tennet
- Enduris
- Stedin
- Alliander
- Uitgekiend
- PIT
- Gemeente Breda
- KNMI
- SURFsara

- Sympower
- LTO Glaskracht
- AgroEnergy
- B-Mex
- Letsgrow.com
- Delphy
- VSL
- General Electric
- De Dobbelsteen
- Kropman
- WUR Greenhouse Horticulture

- 3.24 M€ NWO
- 0,61 M€ private
- **3.85 M€ total**

Smart Culture & Big Data: Three Projects

- 4 PhD
- 3 post-doc
- 2 junior researcher

- KNAW Huygens Institute
- University of Amsterdam
- Utrecht University
- TU Delft

- Netherlands Institute for Sound and Vision
- Koninklijke Brill NV
- Het Nieuwe Instituut Rotterdam
- Monuments and Archaeology, Amsterdam
- VRIJ GLAS foundation
- Picturae
- Netherlands Institute for Art History

- Driebit
- OIS Amsterdam
- Stadsdeel Zuid Oost

- 1.54 M€ NWO
- 0.33 M€ private
- **1.87 M€ total**

Sports & Big Data: Four Projects

- Hogeschool Windesheim
- University of Amsterdam
- Leiden University
- Hanzehogeschool Groningen
- Hoogse Hogeschool
- VuMC
- UMCG
- TU Delft

- RadboudUMC
- Hogeschool Arnhem en Nijmegen
- VU Amsterdam
- Universiteit Twente

- Mulier Instituut
- Kennispraktijk
- NOC*NSF
- KNHB
- KNVB
- Huis voor de sport Groningen
- Gemeente Groningen

- Kenniscentrum Sport
- Amsterdam institute for sport science
- Amsterdam public health institute
- Lifelines
- Sportservice Veenendaal
- InnosportLab
- Sport en Beweeg!
- LedGo

- 1.68 M€ NWO
- 0.7 M€ private
- **2.4 M€ total**

Health & Big Data: Ten Projects

- 18 PhDs
- 13 post-docs
- 3 programmer

- Tiburg University
- TU Eindhoven
- UMC Amsterdam
- LUMC

- IKNL
- Philips
- Elsevier
- Pharmeon
- ExpertDoc
- Máxima Medisch Centrum
- HRH Diabetes Games
- Readspeaker
- Games for health
- Vignet
- Roessingh Research and Development

- Hyve
- Genome scan
- Walter
- Cito
- Isala
- Castor EDC
- Whitebox
- Datac
- Thales
- DIAVASC
- Wender
- Reggeborgh

- Antonius
- Antes
- ZGT
- Holst
- L. Bolk
- KPMG
- Orikami
- MS Fonds

- 5.2 M€ NWO
- 2.7 M€ private
- **7.9 M€ total**

Finances & Big Data: One Project

- 2 PhDs
- 2 post-docs
- 1 programmer

- Tiburg University
- TU Eindhoven

- Achmea
- Rabobank

- 500 k€ NWO
- 500 k€ private
- **1 M€ total**

NL-eScience and Data Science 2016 : Three Projects

- 1 PhD
- 2 post-docs
- 8,3 FTE eScience Research Engineer

- No private partners involved

▪ ...

- 250 K€ NWO
- 500 K€ NLeSc
- **750 K€ total**

- VU Amsterdam
- ASTRON
- RUG Groningen

NL-eScience and Data Science 2017 : Four Projects

- 3 PhDs
- 2 post-docs
- 10 FTE eScience Research Engineer

- University of Amsterdam
- CWI
- Maastricht University
- VU Amsterdam
- AMC Amsterdam

- KLM
- Domino Data Lab
- KNIME
- Autorea
- IOS Press
- Science Open

- 500 K€ NWO
- 500 K€ NLeSc
- **1 M€ total**

Three Activity Lines in Commit2Data

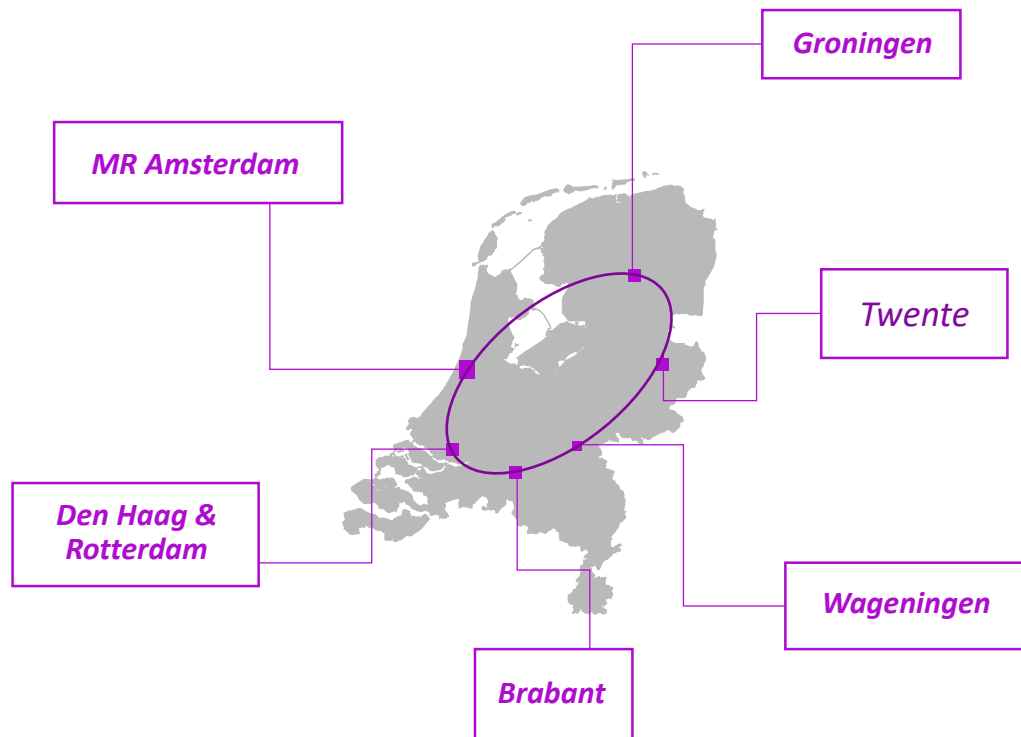
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Commit2Data Valorization Sprints

- **Program** to be developed might include possibilities for:
 - Researchers requesting a “valorization inquiry”
 - Business developers making a scan along projects
 - Project teams applying for valorization grants
- Learn from experiences of, e.g., COMMIT/, STW, ESI, EIT Digital
- **Funding yet to be found**

Commit2Data Big Data Hubs: Key Idea

Regional **big data hubs** as connector between C2D projects and regional (business) activities



- Focal points for sharing of knowledge, data and ideas
- Trusted data sharing facilities and state-of-the-art tooling
- Firmly connected to:
 - (regional) knowledge institutions
 - small, medium, large enterprises
 - existing fieldlabs and infrastructure
- Supported by local economic development boards, KvK
- In line with the *Big Data Value Centre* (Almere), *Big Data Value Centre for Smart Industry* (Eindhoven) and *i-Spaces* from the *Big Data Value Association*
- Further details to be determined, with **TNO** and **SURF**

Where Are We Now?

- By now **130+ participating private parties**
- **Large research volume already** achieved:
 - 74 PhDs and 46 postdocs
 - 5 TNO and 10+ NLeSC engineers
 - 1 PDEng and 2 programmer
- **Working hard on:**
 - Connecting between projects, and between subprograms
 - Information (output) gathering (for website, PR, KPI's, etc.)
 - Improving the valorization pipeline
 - Further dissemination of results
 - Community forming

What Can You Expect from us?

- **NWO calls:**
 - Safe and secure data sharing (currently open)
 - Big data and agro & food (plan to open early 2019)
 - Big data and Smart Industry (plan to open early 2019)
- **Development of programs:**
 - Big data and water & energy (submitted to NWO Crossover)
- **Community forming events, e.g.:**
 - Yearly project meetings within the verticals (sectors)
 - ECP Annual Symposium
 - Commit2Data track at Conferentie Nederland Digitaal
- Requests for **information** on your project and output

Visit us in our Booth!



Astrid Zuurbier



Boudewijn Haverkort



Rene Montenarie



Aldert de Jongste



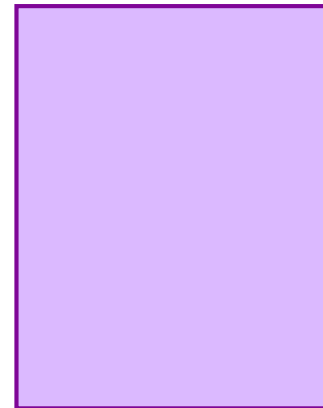
Harrie van der Vlag



Yvette Tuin



Judith Kessens



<https://www.commit2data.nl>

Do sign up for our **newsletter!**