

# NWO funding instruments

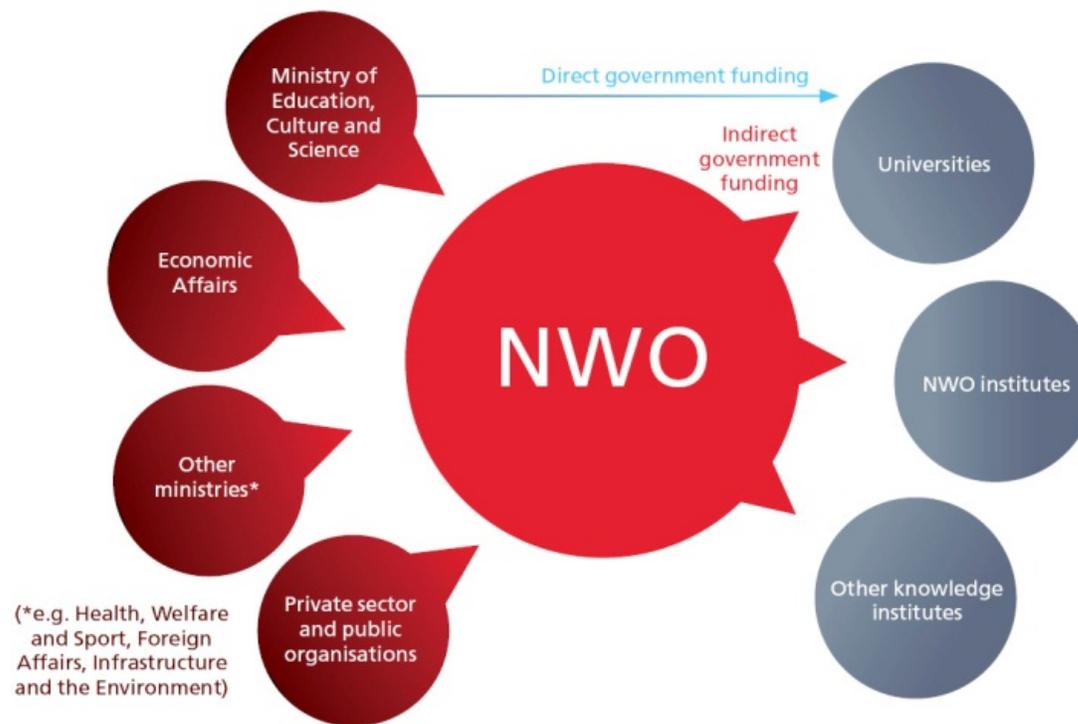
Femke Stephan | 4TU.AMI company event | Public Private funding



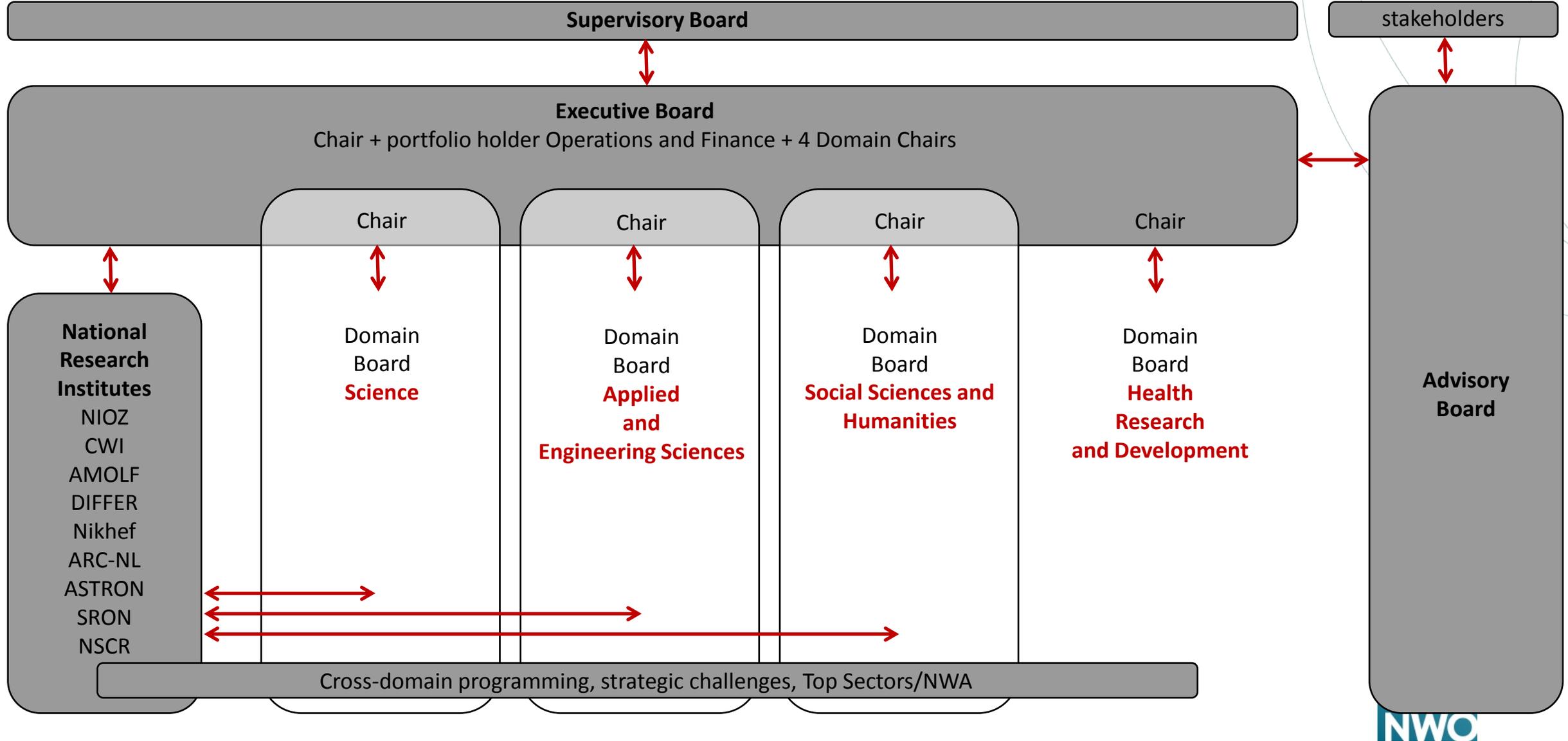
# About NWO

- National research council in the Netherlands
- Enabling scientific research to excel
- Allocates research funding
- Facilitates knowledge transfer
- Funds more than 5000 scientific researchers
- Facilitates/coordinates (international) cooperation
- In research and with industry
- Competition and selection by peer review

## NWO'S ROLE IN RESEARCH FUNDING



# New NWO organisation as of 1 January 2017



# NWO strategy: Connecting Science and Society

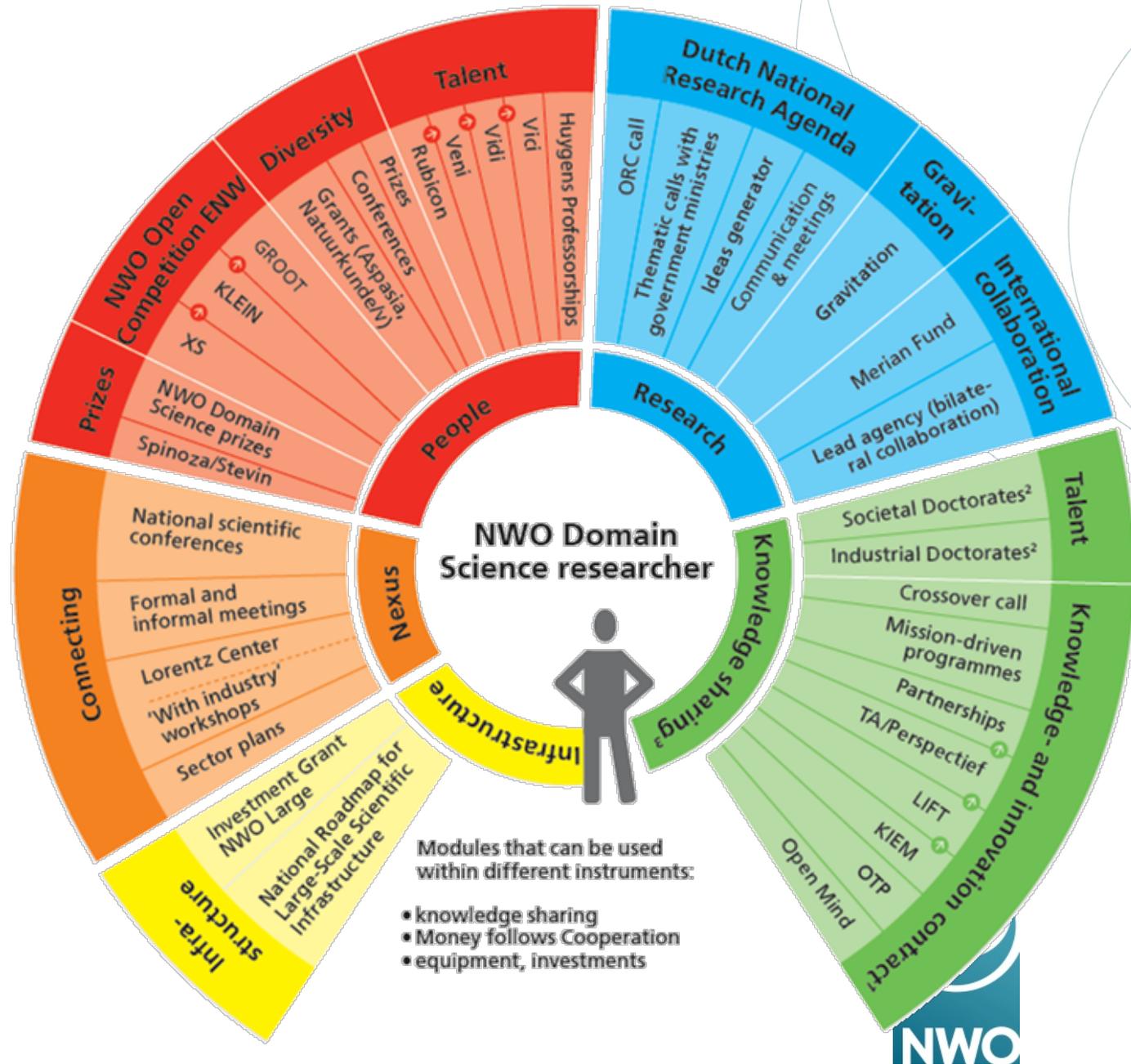
## Five ambitions

- Nexus and coordination
- People
- Research
- Infrastructure
- Knowledge exchange and impact



# NWO Instrument Fan

Aimed at the NWO Domain Science researchers



# Funding Instruments

Public Private Partnerships



# Science PPP fund

- NWO's contribution to the KIC, to stimulate PPPs in the Top Sectors
- Chemistry, HTSM, Energy, Agri&food, ICT
- Open, bottom up program
- Projects should comply with the ambitions (KIAs) of the topsectors
- Four funding instruments: from small short projects to large partnerships
- ENW PPS Fund deadlines: 4 June 2019 and 8 October 2019.



## Call for proposals

### ENW PPS-fonds 2019

Impuls voor publiek-private samenwerking binnen de Topsectoren  
Chemie, Energie, Hightech Systemen & Materialen, Agri&Food, en ICT

2019

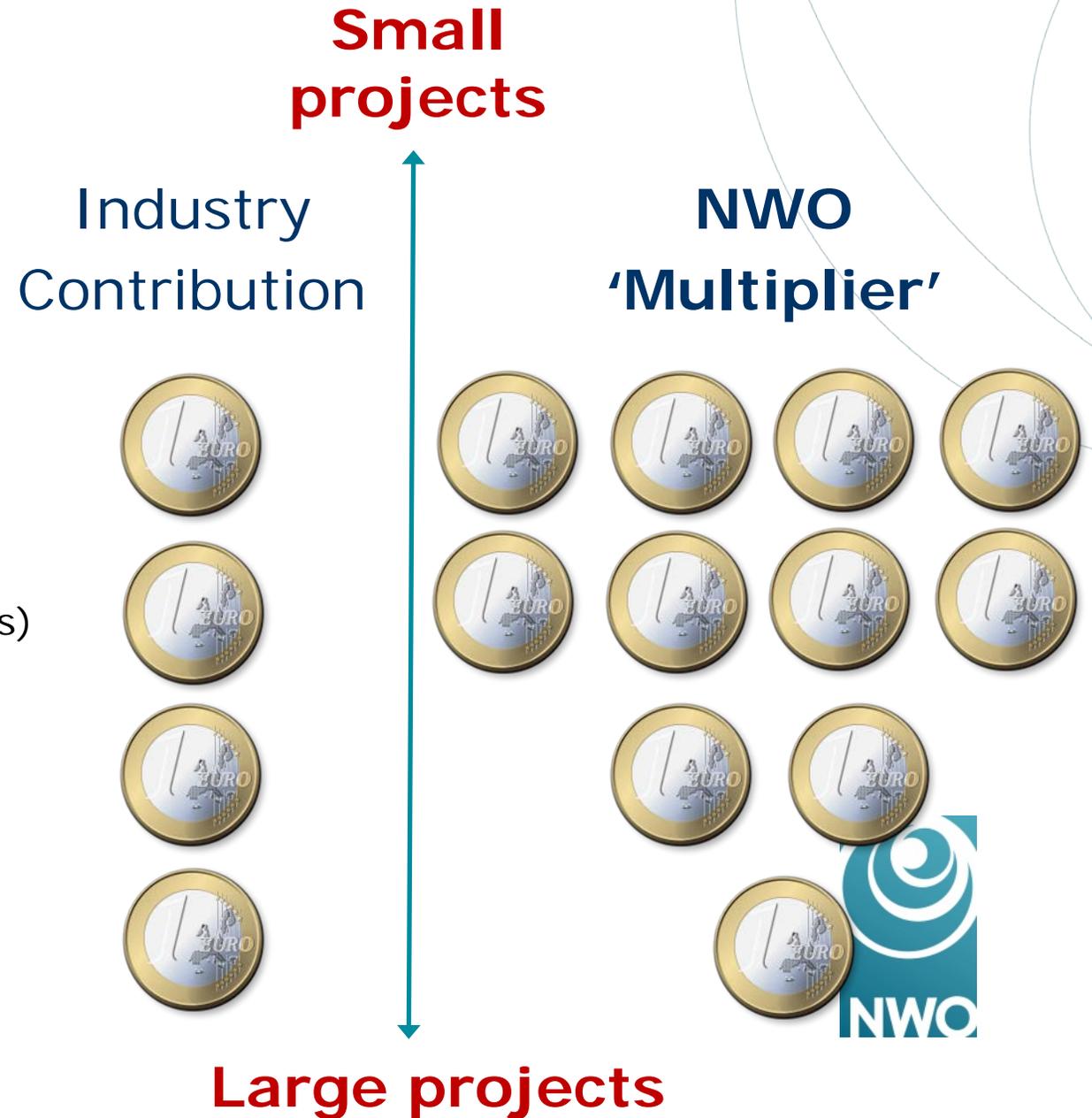
# Science PPP fund

KIEM (Knowledge and Innovation Mapping)

LIFT (Launchpad for Innovative Future Technologies)

TA (Technology Area)

IPP (Industrial Partnership Project)





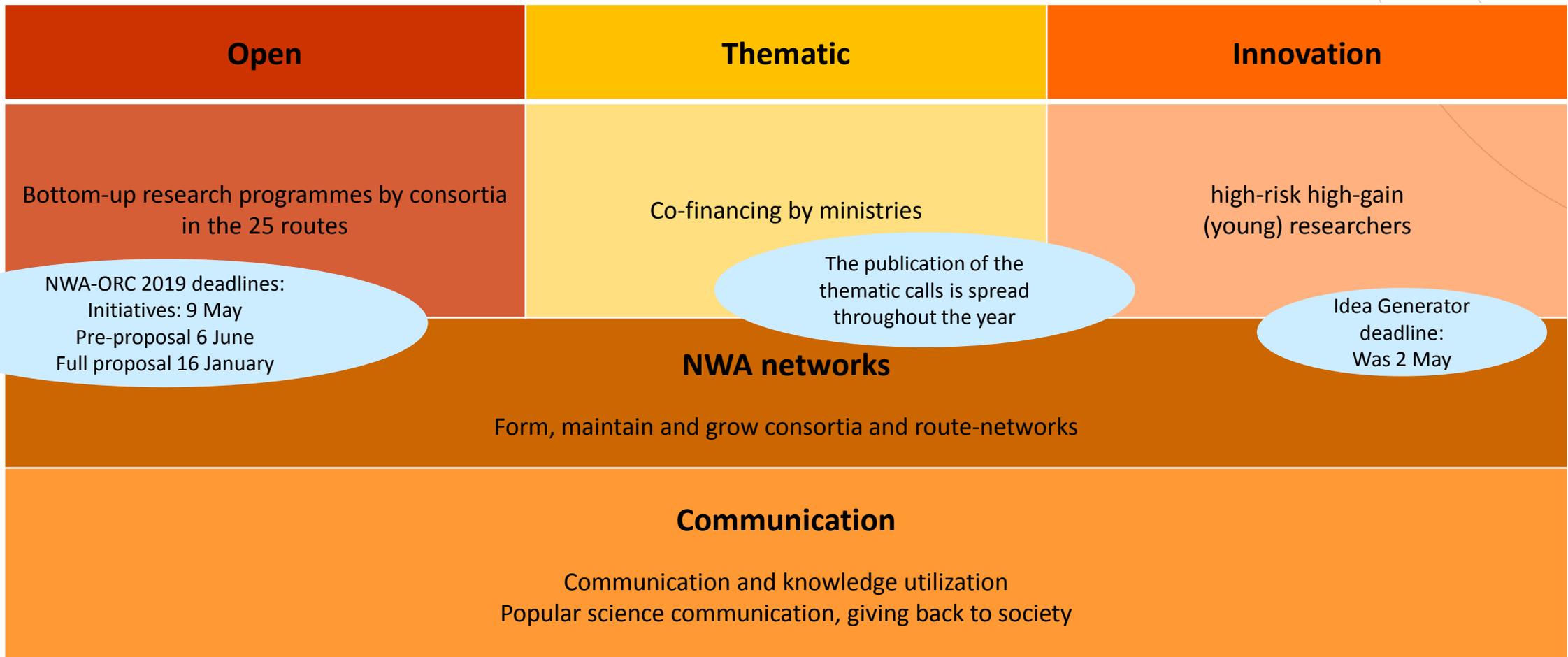
# Dutch national research agenda

questions  
connections  
prospects

## Aim of the NWA programme

- Focused on potential scientific and societal breakthroughs
- Inter- and transdisciplinary collaboration
- Combination of fundamental and applied / practice-oriented research
- Connecting the public knowledge chain with societal partners (public and private)
- Returning science to society (bottom-up)





# Open and Upcoming PPS Funding Calls (TTW)

- Open Technology Programme (continuous) 500k-750k – application-oriented technical-scientific research

<https://www.nwo.nl/en/funding/our-funding-instruments/ttw/open-technology-programme/open-technology-programme.html>

- Perspective (previous deadline nov 2018) 1.5M-4M multidisciplinary development of new technology

<https://www.nwo.nl/en/funding/our-funding-instruments/ttw/perspectief-2018-2019/perspectief-2018-2019.html>

- Take-off (2 deadlines per year feb and okt) - aimed at academic innovative start-ups

<https://www.nwo.nl/onderzoek-en-resultaten/programmas/take-off>

- Demonstrator (1 deadline per year ~ feb) 150k - creating a demonstration model

<https://www.nwo.nl/onderzoek-en-resultaten/programmas/demonstrator>

- HTSM call (1 deadline per year ~ april) 750k - applications concerning applied research in High Tech Systems & Materials

<https://www.nwo.nl/onderzoek-en-resultaten/programmas/htsm>



# Open and Upcoming Thematic Funding Calls (ENW)

- Smart Industry call (data science) (Online June 2019, deadline 19 September 2019)
- AI call (Opens 2019)
- Energy System Integration (Opens 2019)



# Smart Industry 2019 call (SI2019)

- Multidisciplinary call at the intersection of Smart Industry, Big Data/Commit2Data, and Creative Industry
- 4.35M subsidy available; public-private collaborations (At least 30% contribution, at least 15% cash contribution)
- researchers from universities of applied science (UAS) can participate as co-applicants
- Deadline for submission of an Expression of Interest is Thursday 27 June 2019
- Deadline for full proposal submission is Thursday 19 September 2019

<https://www.nwo.nl/en/funding/our-funding-instruments/ttw/smart-industry/smart-industry-2019---si2019.html>



# Call SI2019 research areas

- addresses a subset of the topics described in the Smart Industry roadmap document
  - Mass customization / use-based adaptation
  - Human Centered Technology / Human Technology
  - Digital Twin
  - Cyber Physical Systems
  - (Trusted) data sharing
  - Advanced Manufacturing
  - Robotics

IMPACT/development areas			
Technologies	Business	Society	
Smart Response			
Smart Products & Services			Human Centered Technology
Smart Manufacturing & Processes	Advanced Manufacturing	Mass customization / use-based adaptation	Human Centered Technology
Smart Systems	Digital Twin Robotics	Cyber Physical Systems (Trusted) Data Sharing	

At least two of the themes mentioned under at least two of the columns need to be addressed in an integrated manner



# AI Call for Proposals

Dutch AI Manifesto IPN Special Interest Group (SIG) AI:

- **Responsible AI**
- **Explainable AI**
- **Socially-Aware AI**

2.1 M subsidy available

Projects size: 0.2 – 0.5 M

20% private matching (at least half *in cash*)

To be published in a few weeks

**More info:**

NWO Newsletter

[A.Zuurbier@NWO.NL](mailto:A.Zuurbier@NWO.NL)



# Thank you for your attention

## Want to stay up to date?

- Subscribe to NWO newsletter: <https://www.nwo.nl/actueel/nieuwsbrieven>



# Titel van de dia

Naam spreker | Plaats | Subtitel



# Science PPP fund, KIEM

Project type	Contribution industry (%)	Contribution NWO (%)	Project budget (k€)	Participants
KIEM	20%	80%	20-50	1 SME/startup + 1 knowledge institute

Aimed at short, application oriented projects between SME & Knowledge Institute

Private contribution = cash + in kind

The first €5000 matching may be in kind

Larger project? → Cash contribution



# Science PPP fund, LIFT

Project type	Contribution industry (%)	Contribution NWO (%)	Project budget (k€)	Participants
LIFT	20% (cash)	80%	150-300	≥ 1 company + ≥ 1 knowledge institute

Easily accessible form of PPP for tackling fundamental questions and/or pursue innovations

Regular LIFT (two phases)

Phase 1: k€40 - k€80, **13%** cash matching

Phase 2: k€110 – k€220, **23%** matching

Pre defined go/no go moment (deliverables) to decide on start 2<sup>nd</sup> phase

Only a hard private commitment for first 13% matching is required

No PhDs in regular LIFT

Complete LIFT (one phase)



# Science PPP fund, TA

Project type	Contribution industry (%)	Contribution NWO (%)	Project budget (k€)	Participants
TA	30% (cash + in kind)	70%	750-1500	≥ 2 companies + ≥ 2 knowledge institutes

Aimed at large consortia to tackle (broad) fundamental questions within in a scientific or technological area

Matching that counts for calculating the NWO contribution:

Cash: everything counts

In kind per SME: max. 2x cash contribution of SME

In kind per large company: max 0.5x cash contribution of company



# Science PPP fund, IPP

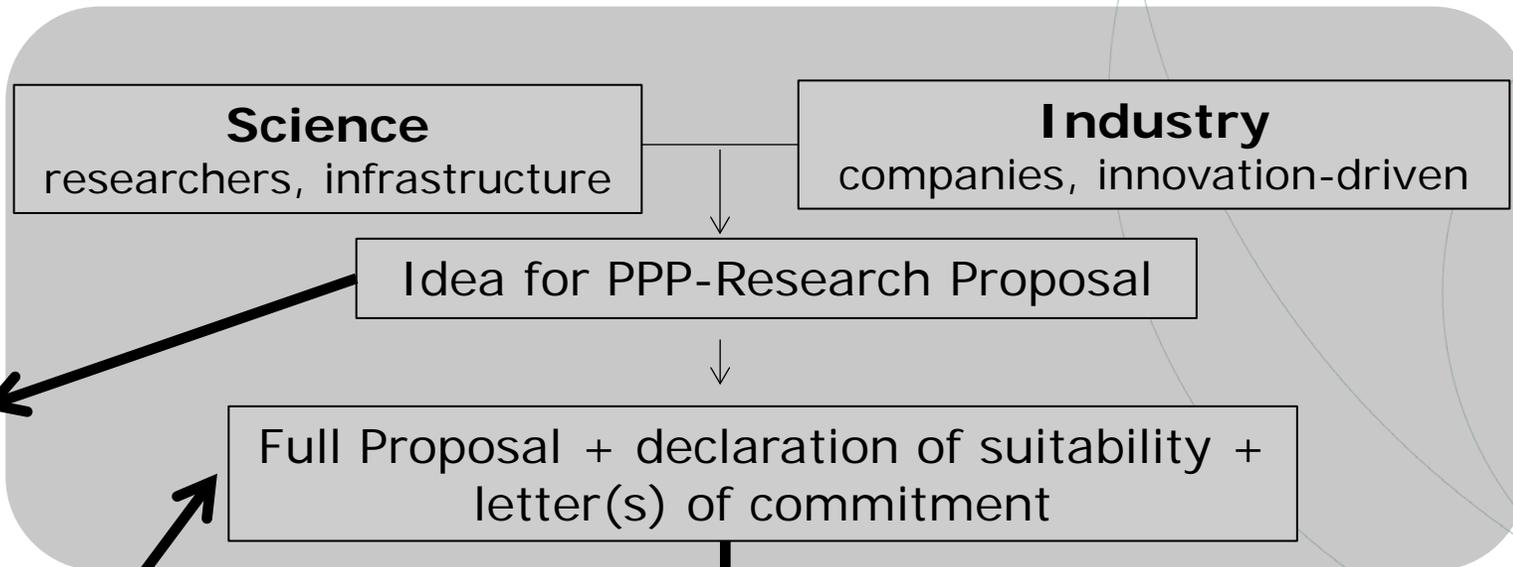
Project type	Contribution industry (%)	Contribution NWO (%)	Project budget (k€)	Participants
IPP	50%	50%	1000-2000	≥ 1 company + ≥ 1 knowledge institute

Aimed at large partnerships in which fundamental questions from participating industry are addressed and innovations are pursued

Private contribution: 50% in cash.



# Procedure



## Top Sector

Assessment by TKI  
*Fit in KIA/Roadmap(s)?*  
*E.g. Chemistry:*

- *Chemistry of Advanced Materials*
- *Chemistry of Life*
- *Chem. Conversion, Process Technology and Synthesis*
- *Chemical Nanotechnology and Devices*
- *Research Agenda BBE*
- *Process: 2 weeks*

Declaration  
of suitability

Science PPP fund  
**LIFT, TA, IPP, KIEM**

Assessment procedure  
Peer review + rebuttal / interview assessment committee

Criteria: LIFT / TA / IPP

- Scientific quality
- Innovation potential
- Quality of consortium & programme management

KIEM  
*(directly assessed by committee)*

- Quality of proposal
- Innovation potential
- Composition and complementarity team

Process: ~ 6 months

~ 3 months

