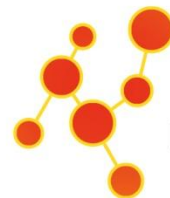


The Innovation Sensor

A Dashboard for Portfolio Management

Joost Koch – Netherlands Enterprise Agency

EGRD workshop 24 april 2014



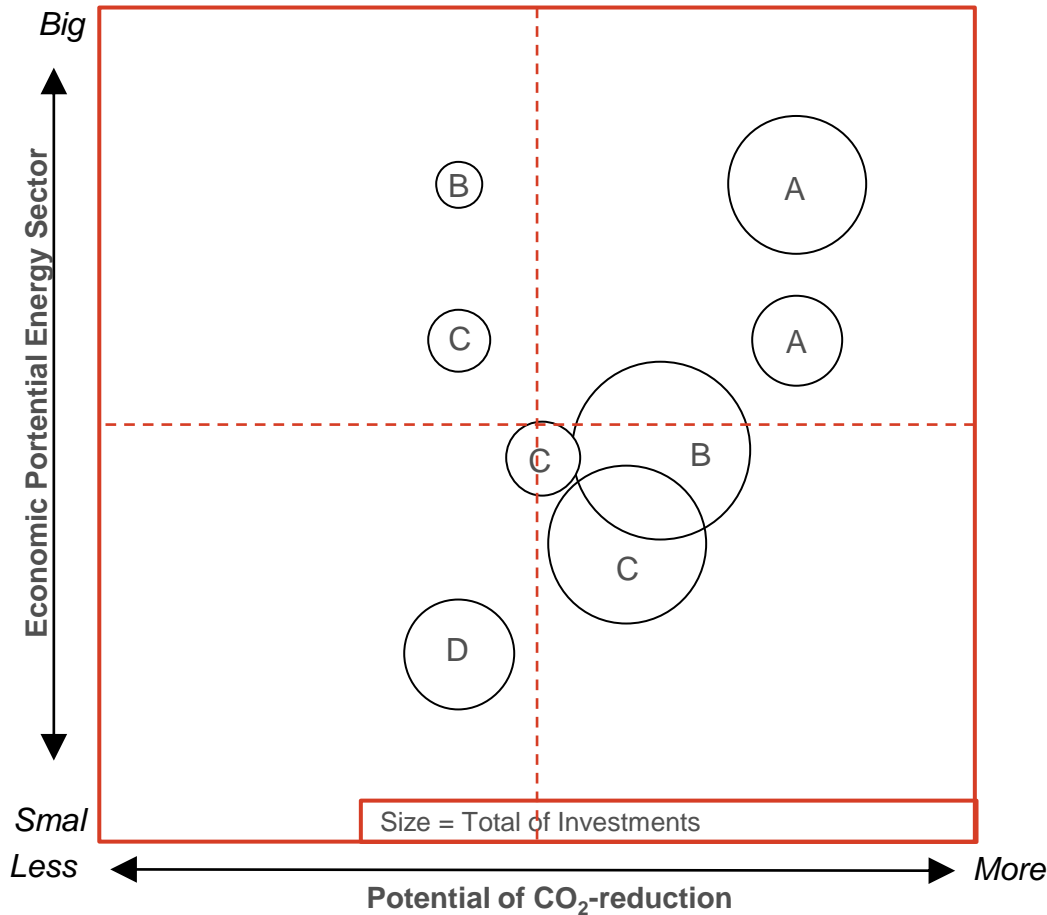
TOPSECTOR ENERGIE

Empowering the new economy

Agenda

- Dutch Policy on Energy Innovation
- A Dashboard for Portfolio Management

To realize Sustainable and Economic impact



Indicators	
Sustainable	Sustainable Energy Production
	Installed Capacity
	Energy Reduction
Economy	CO ₂ -reduction
	Turnover
	Export
	Employment

With International Top Public-Private Partners

For example: Off shore Wind

Suppliers, harbours and transport

**Material
Production**

**Components
Production**

**Assembling,
Installation
and
Groundwork**

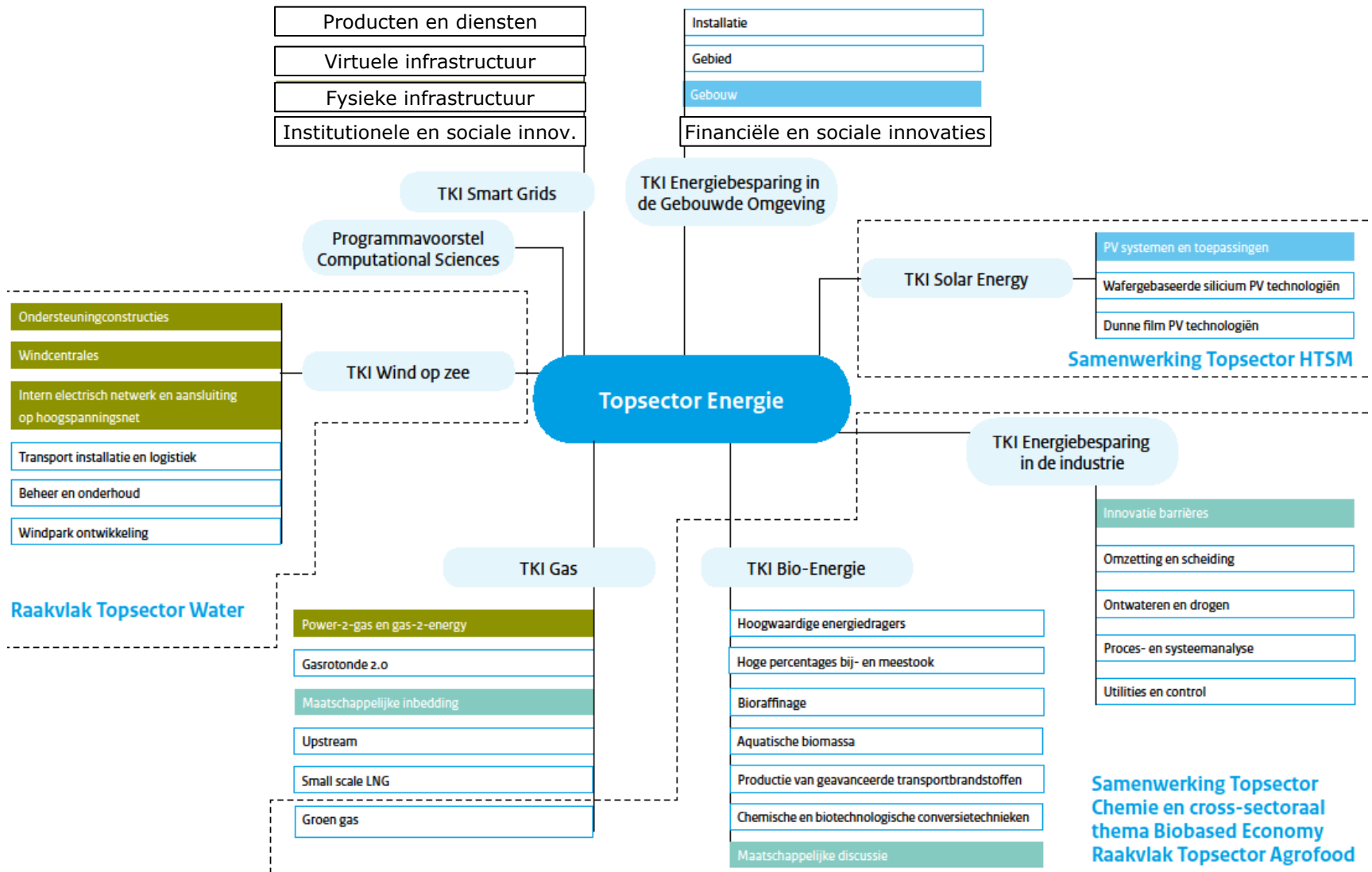
**Services and
Maintenance**

Research, Development & Demonstration (RD&D)

Consulting

Project development and Financing

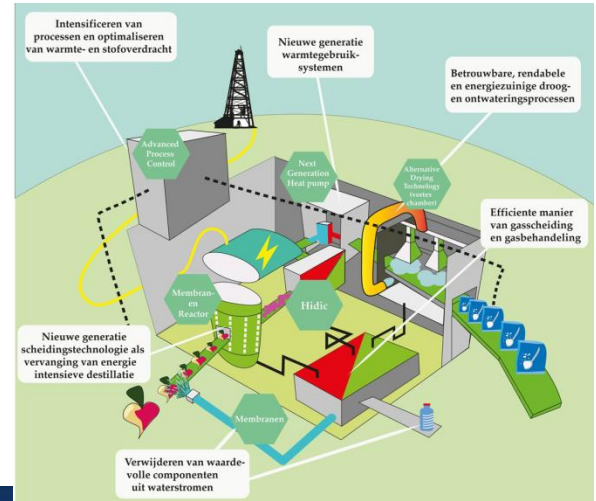
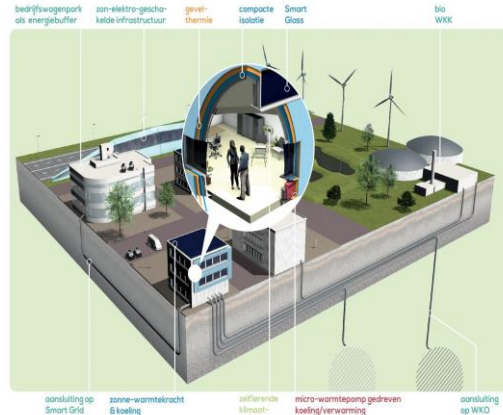
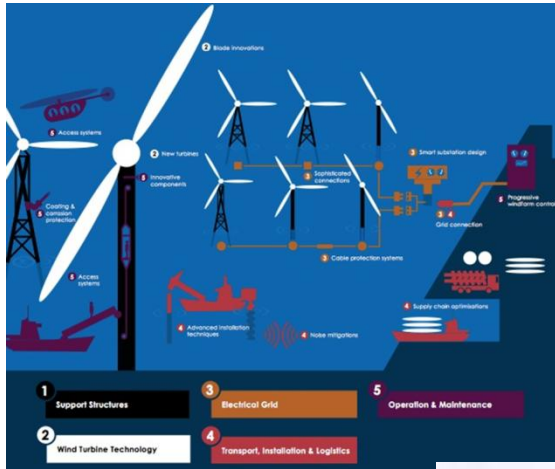
In new Innovation Institutions



On the Agenda of the TopTeam Energy

- Internationalisation
- A human Resource Agenda
- Demand-driven Innovation (institutions)
- Portfolio of Innovation Programs

To Develop New Components and Products

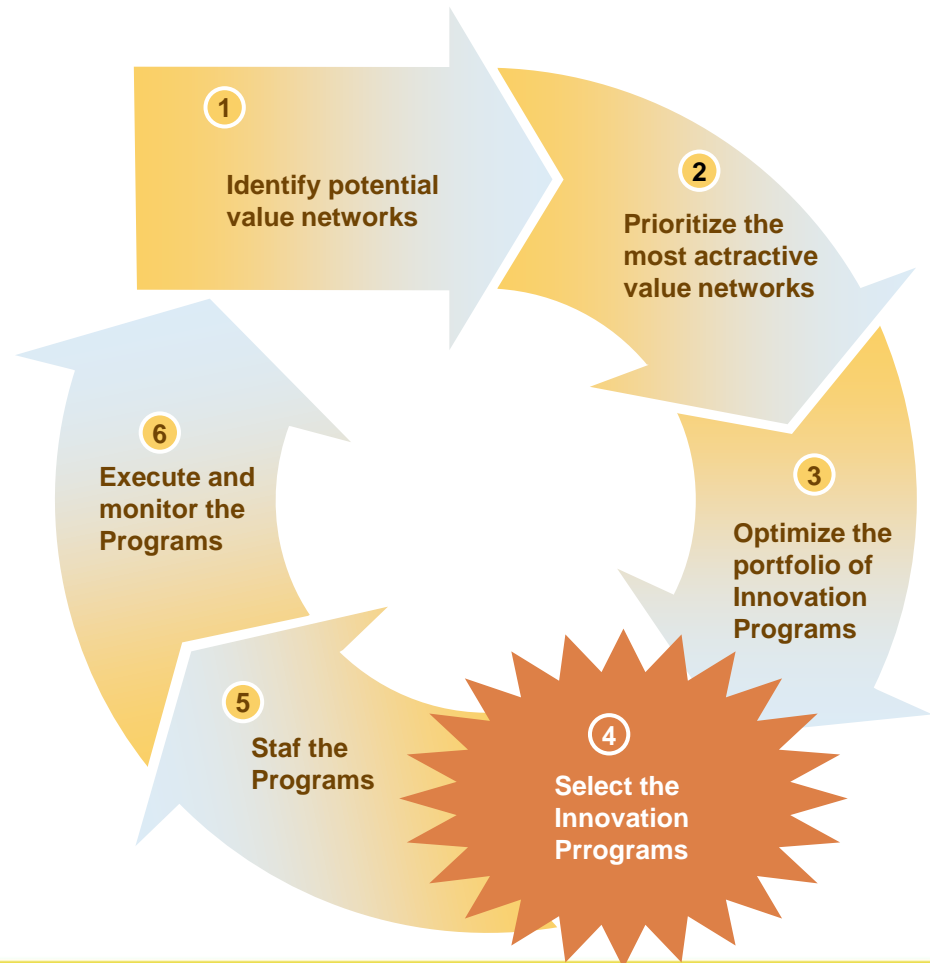


Agenda

- Dutch Policy on Energy Innovation
- **A Dashbord for Portfolio Management**

Portfolio Management

Selection of Innovation Programs (biennial)



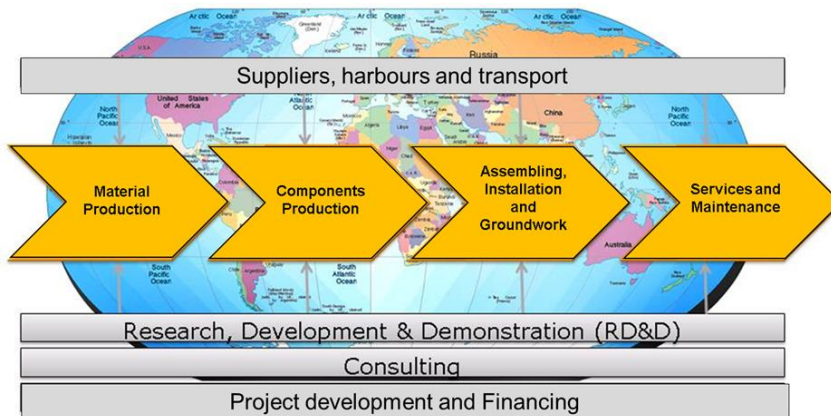
Selection of Innovation Programs - Criteria

Contribution to the National Energy Agreement .

The parties to the Energy Agreement will strive to achieve the following objectives:

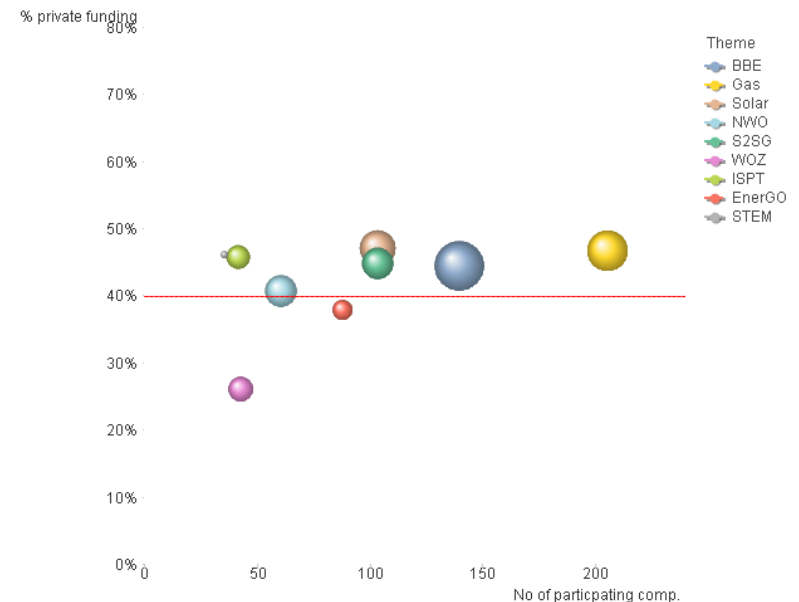
- a saving in final energy consumption averaging 1.5% annually. This is expected to be more than enough to comply with the relevant EU Energy Efficiency Directive;
- in this context, a 100 petajoule (PJ) saving in the country's final energy consumption by 2020;
- an increase in the proportion of energy generated from renewable sources from 4.4% currently to 14% in 2020, in accordance with EU arrangements;
- a further increase in that proportion to 16% in 2023;
- at least 15,000 full-time jobs, a large proportion of which will be created in the next few years.

International positioning and reputation

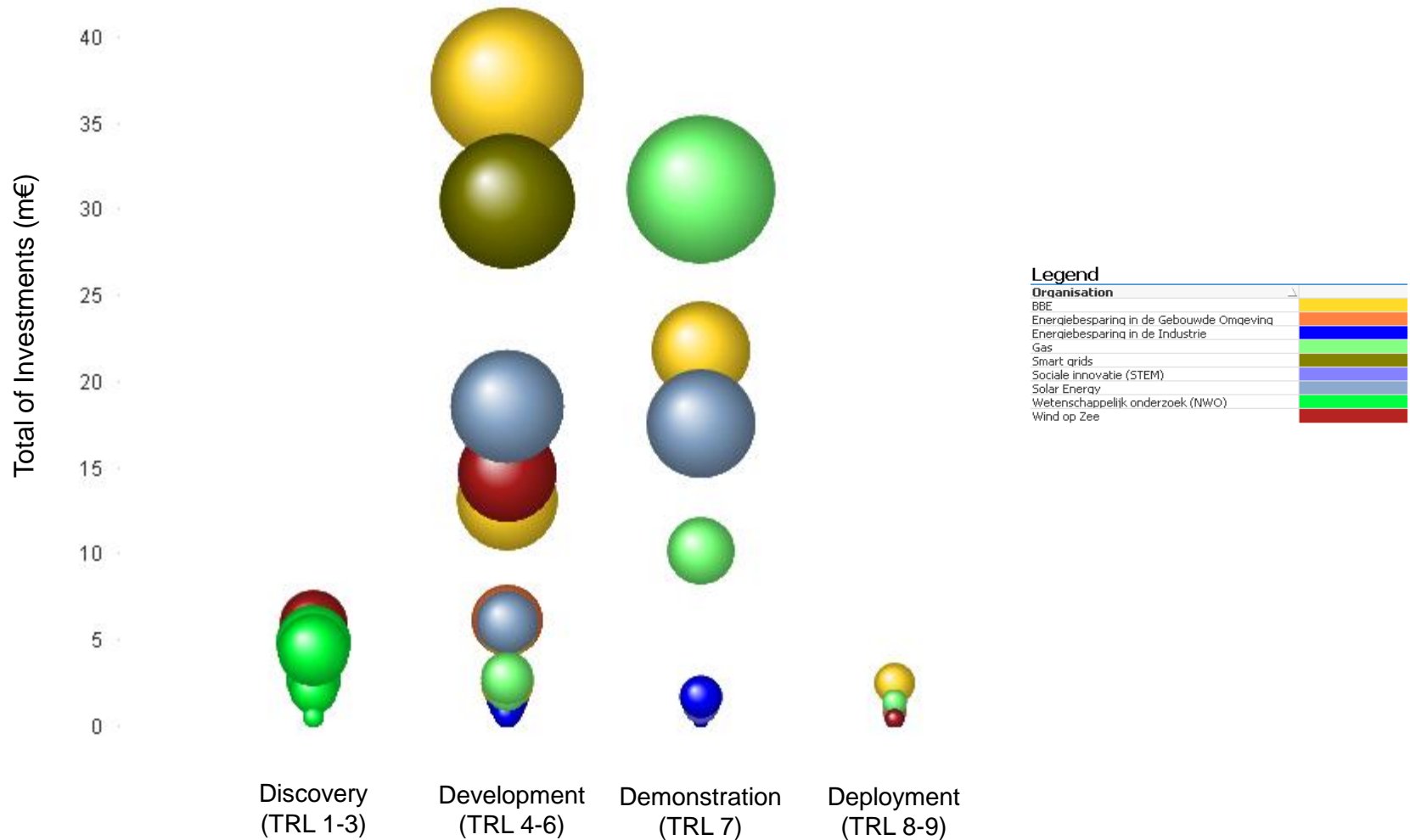


Source: Expectations of Plan Bureaus, (inter)national Statistics and Energy Expert opinions

Number and Financing by private partners



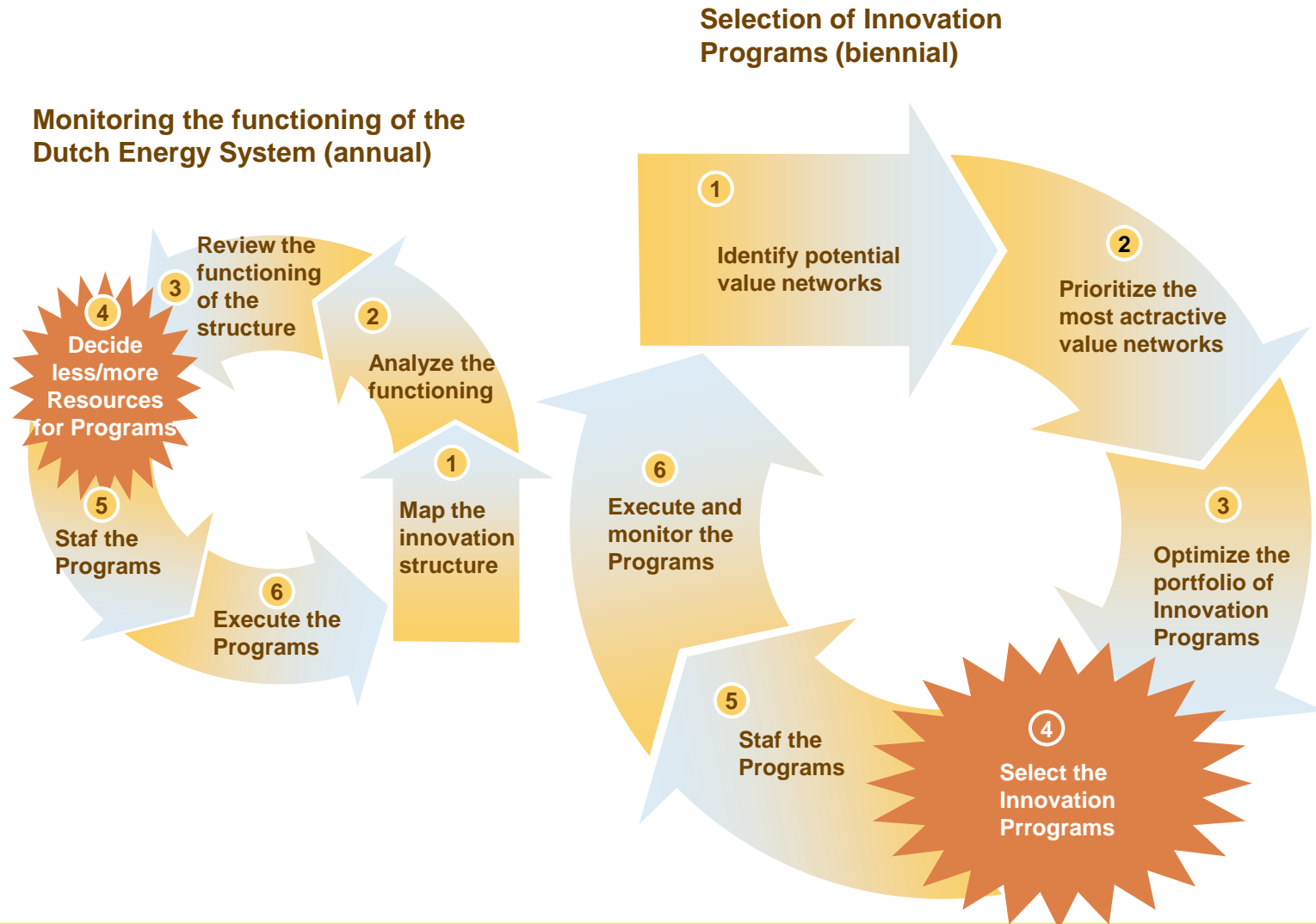
Selection of Innovation Programs - Portfolio



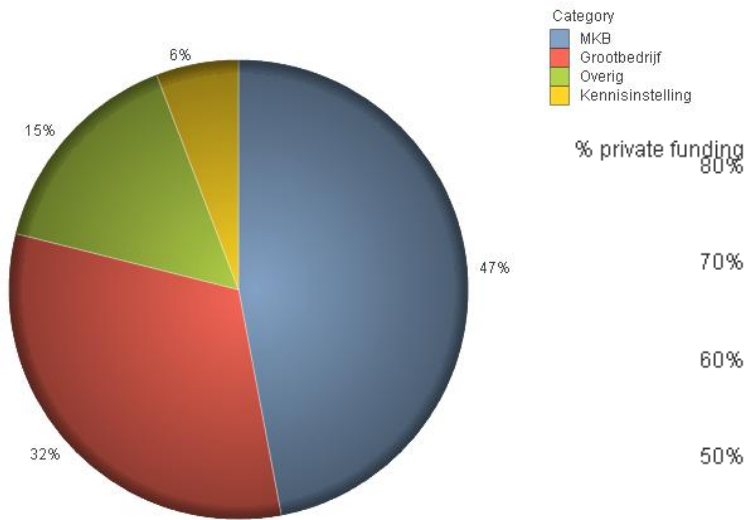
Legend

Organisation	Color
BBE	Yellow
Energiebesparing in de Gebouwde Omgeving	Orange
Energiebesparing in de Industrie	Blue
Gas	Green
Smart grids	Brown
Sociale innovatie (STEM)	Light Blue
Solar Energy	Light Green
Wetenschappelijk onderzoek (NWO)	Red
Wind op Zee	Dark Red

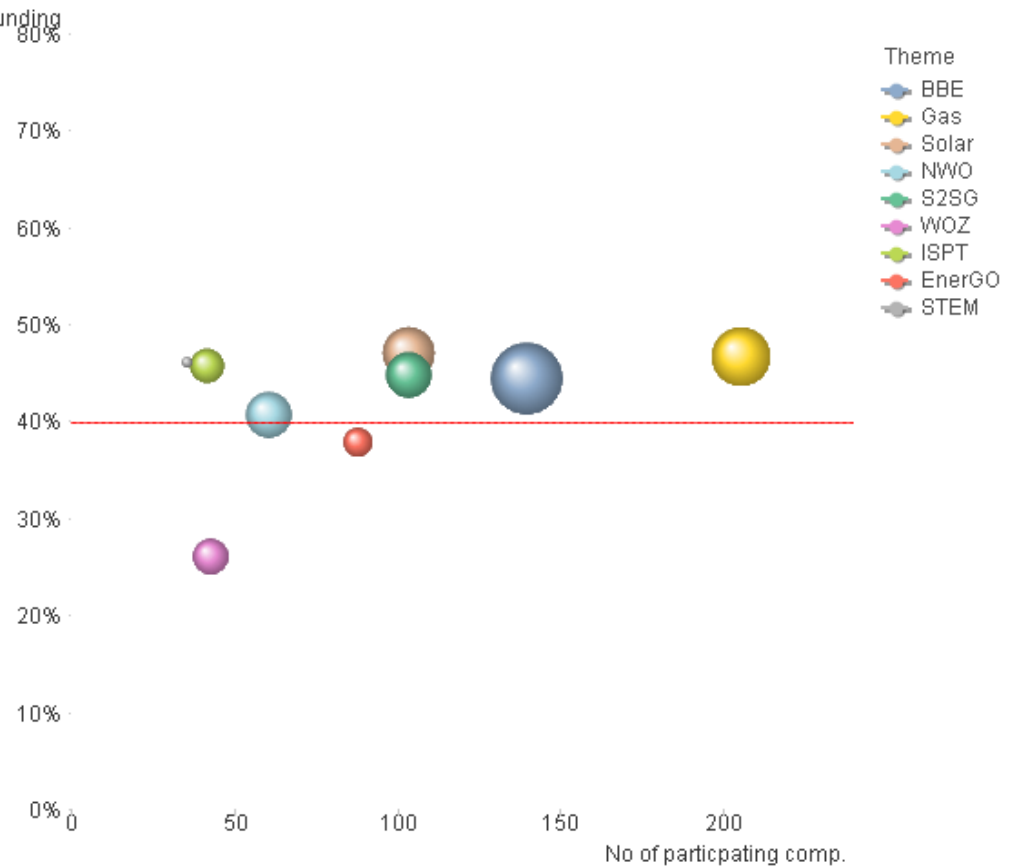
Portfolio Management



Functioning of the Dutch Energy System - Actors



The right actors?
International reputation?
Role in value chain?



Regional clusters?

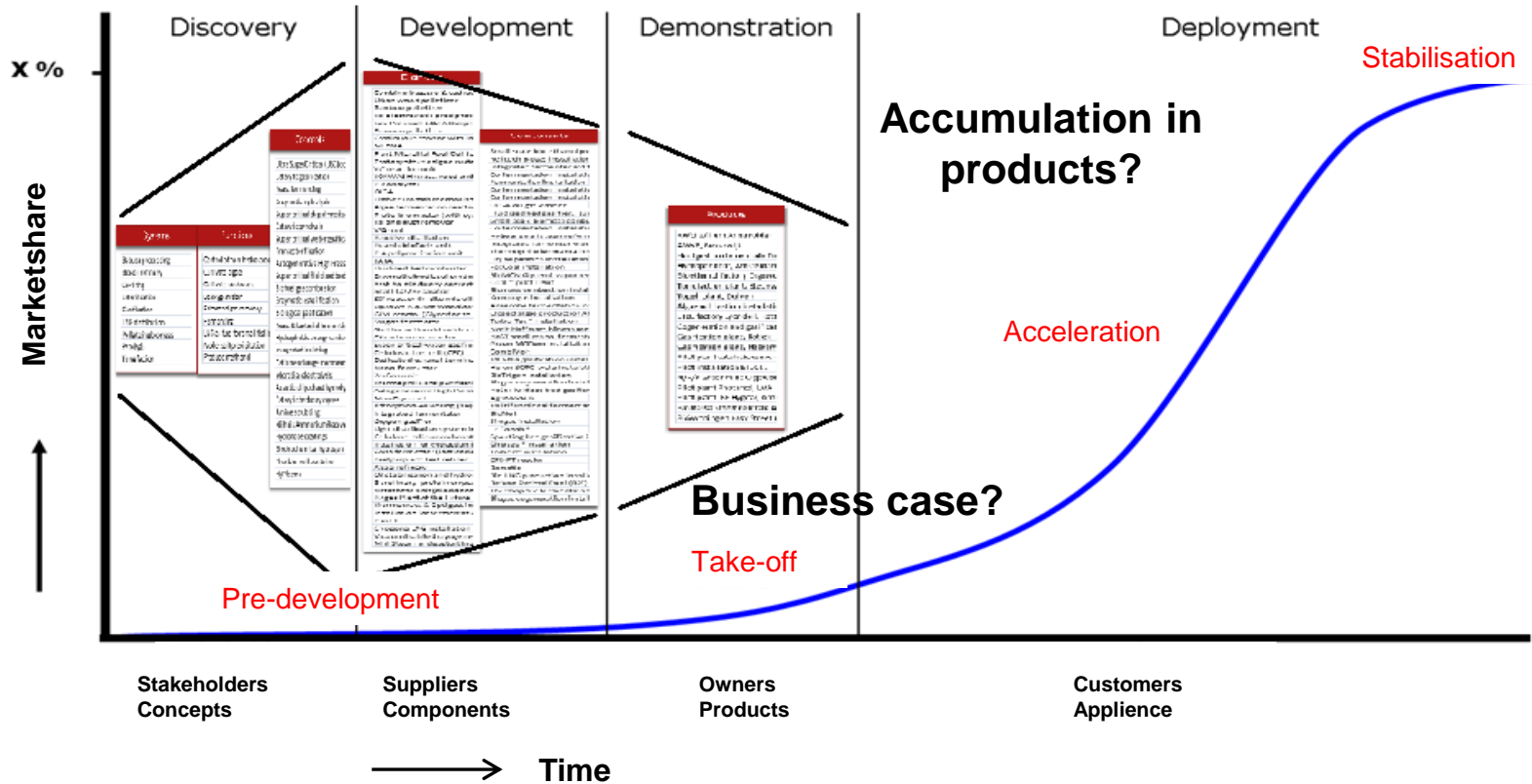


Source: Public-Private financed project plans of RVO.NL, NOW and Knowledge Institutions

Enough Private Resources?
% SME?

Functioning of the Dutch Energy System - Technology

Enough variation?
Increase in Technology Readiness?



Source: Public-Private financed project plans of RVO.NL

Innovation Sensor

A Dashboard for Portfolio Management

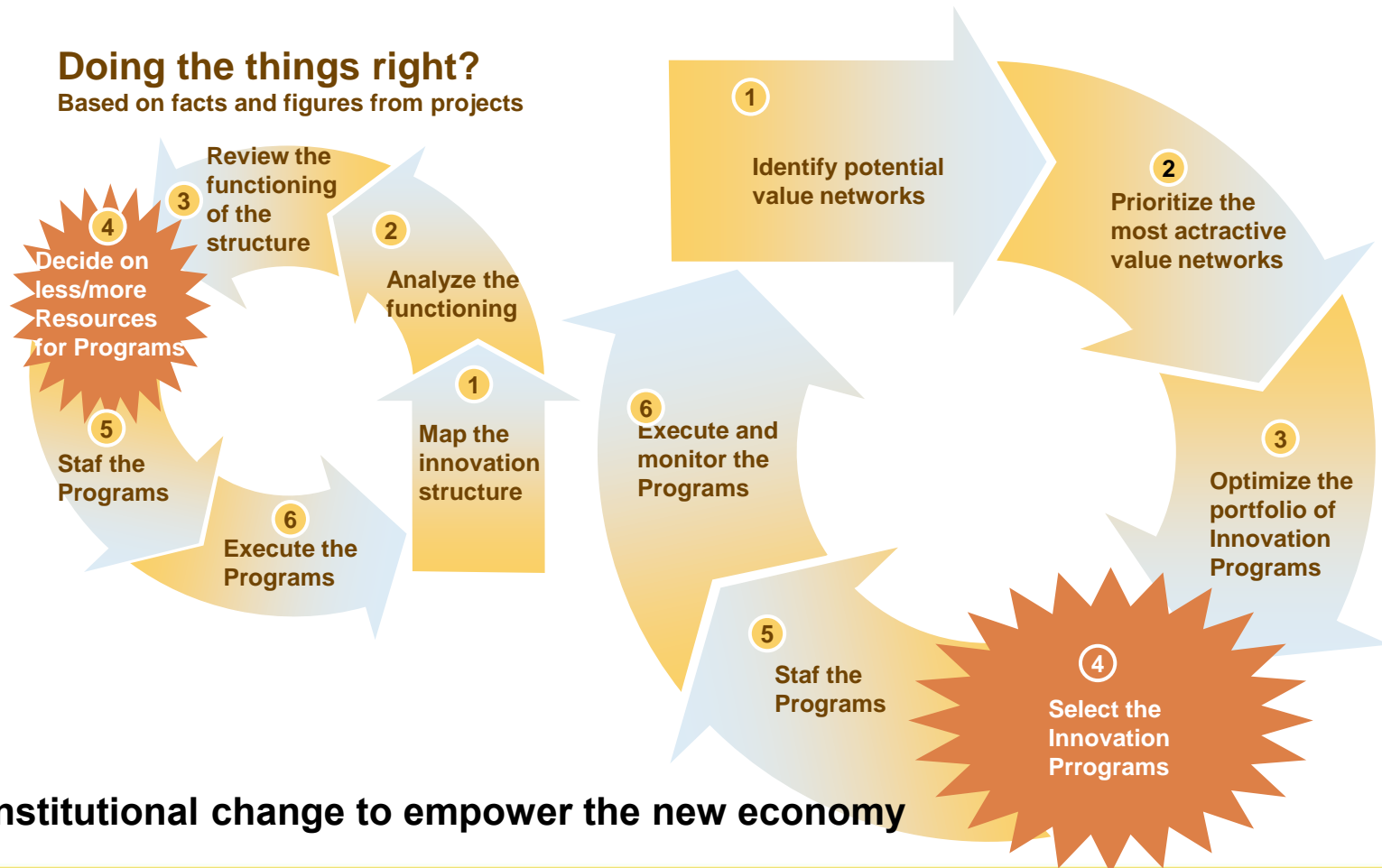
Helping the TopTeam to decide on....

Doing the right things?

Based on expectations of plan Bureaus and experts

Doing the things right?

Based on facts and figures from projects



....institutional change to empower the new economy

Questions?

<http://topsectorenergie.nl/english/organisation>

<http://english.rvo.nl>

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