

Jacqueline Cramer
Chairman Dutch Concrete
Agreement

 PEOPLE
 PLANET
 PROFIT



Dutch Concrete Agreement

- Goals
- Approach
- Lessons learned

CONCRETE AGREEMENT: Start on 10th of July 2018



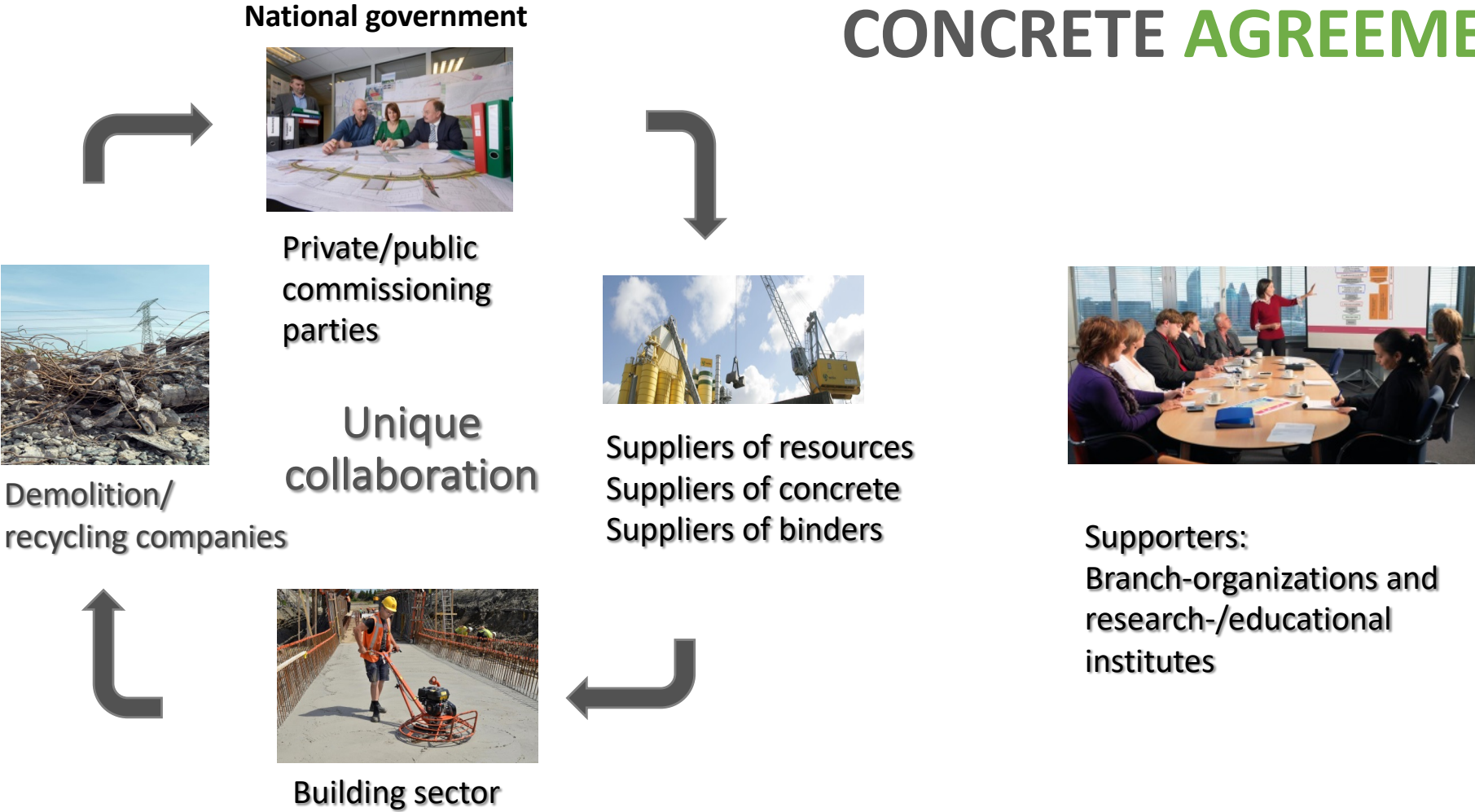


OBJECTIVES OF CONCRETE AGREEMENT

In 2030:

- CO₂ reduction of min. 30% but aim of 49%
- 100% circular concrete
- A net positive value of natural capital
- Increased social capital via improving and sharing knowledge, innovation and education

CONCRETE AGREEMENT



Governance model of concrete agreement

Start: July 2018
Phase 1: to end on 1 January 2022
Phase 2: roll-out in which the whole sector joins

Chairs of teams:
- Responsibility for team results

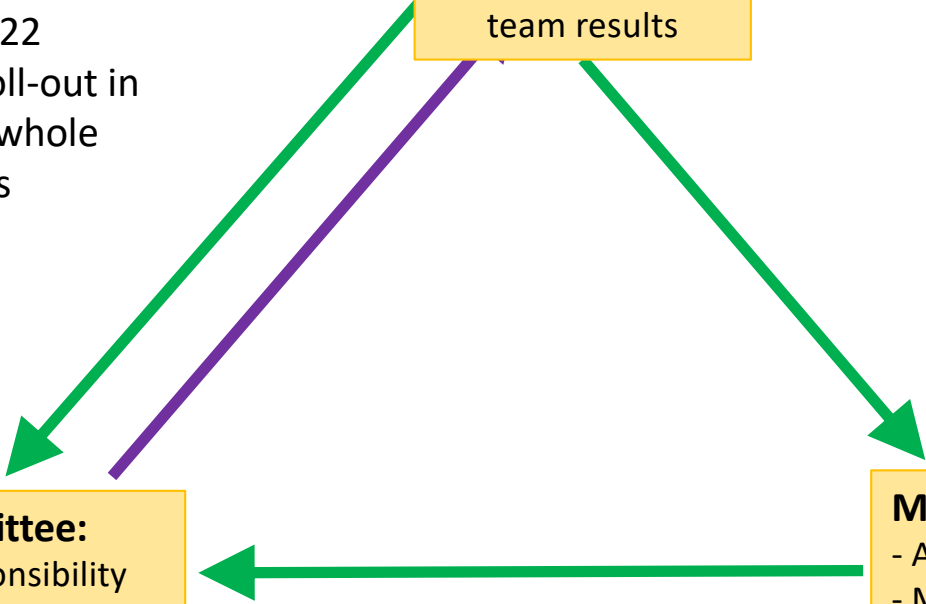
7 execution teams
- Design roadmaps/tools
- Innovation priorities

Contractors
Performance-based contracting

Innovation platform
Matchmaking between market and contractors

Steering committee:
- Has final responsibility
- Chair: Jacqueline Cramer

Monitoring committee:
- Assesses the feasibility of roadmaps
- Measures progress made



Lesson learned 1: innovations on all levels of circularity needed to reach goals in 2030

Levels of circularity: 10 R's

Order of priority

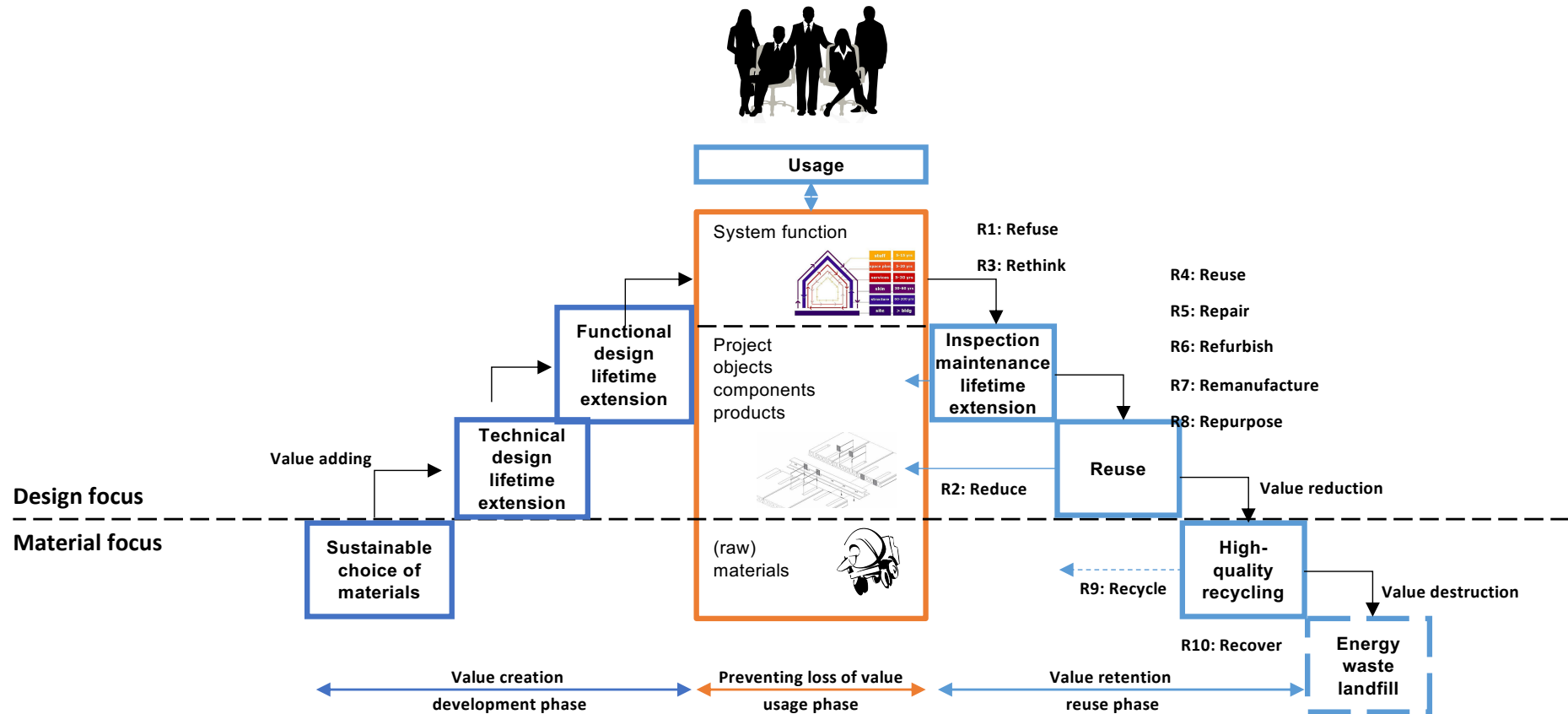
High



- *Refuse*: prevent raw materials' use
- *Reduce*: decrease raw materials' use
- *Redesign*: reshape product with a view to circularity principles
- *Reuse*: use product again (as second hand)
- *Repair*: maintain and repair product
- *Refurbish*: revive product
- *Remanufacture*: make new from second hand product
- *Re-purpose*: reuse product but with other function
- *Recycle*: salvage material streams with highest possible value
- *Recover*: incinerate waste with energy recovery

Low

The Dutch construction value model based on the 10R ladder



Lesson learned 2: cooperation between contractors and concrete & building sector is crucial

*Thank you
for Listening!*