



PBL Netherlands Environmental
Assessment Agency

Evaluation of Dutch 'Green Deals' circular economy

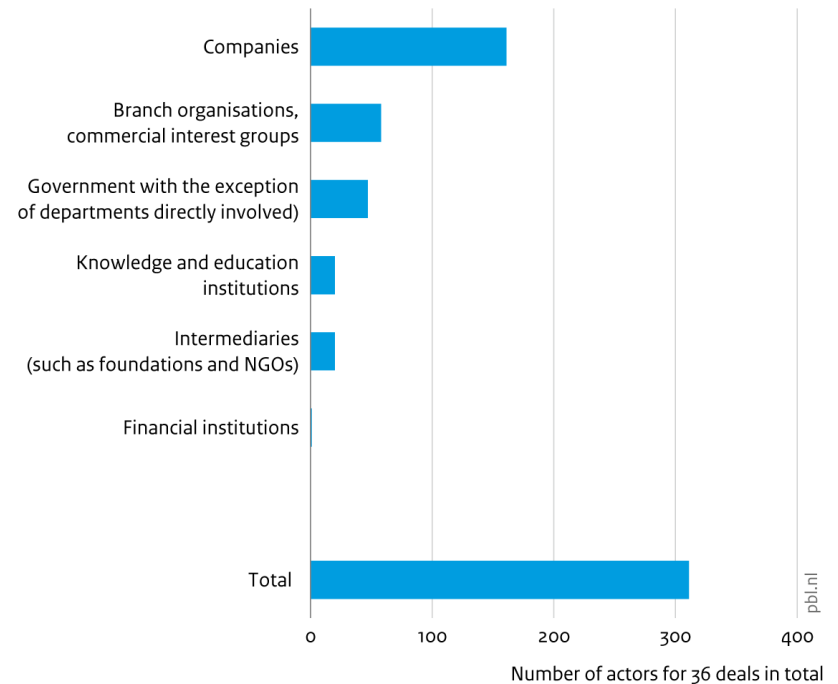
What role can Green Deals
play in preparing the way
for a circular economy?

15 September 2016
Jurgen Ganzevles (PhD)

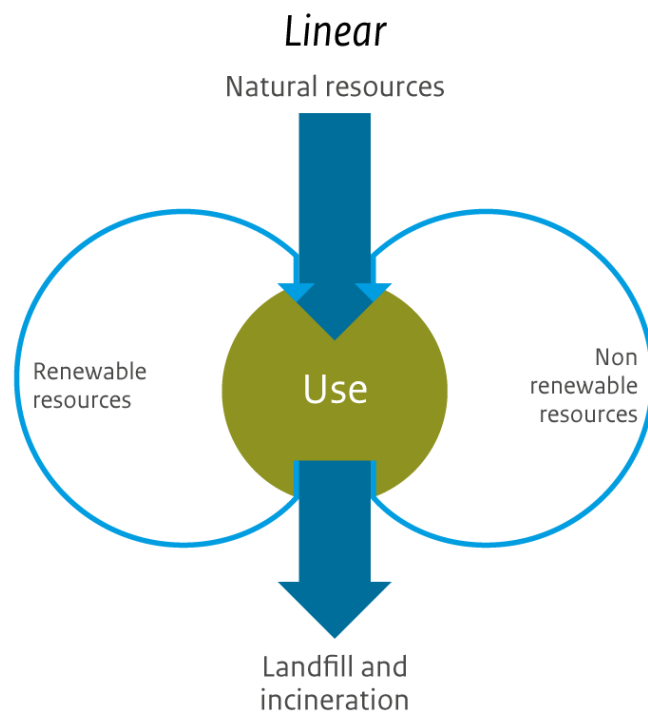
What are 'Green Deals'?

- voluntary agreements
- > 200 deals since 2011, on different themes
- encourage social dynamics
- 'green' projects
- remove (legislative) bottlenecks: less regulation
- government(s) participate
- no euros
- *additional* to other policies
- EC follow-up: 'Innovation Deals'

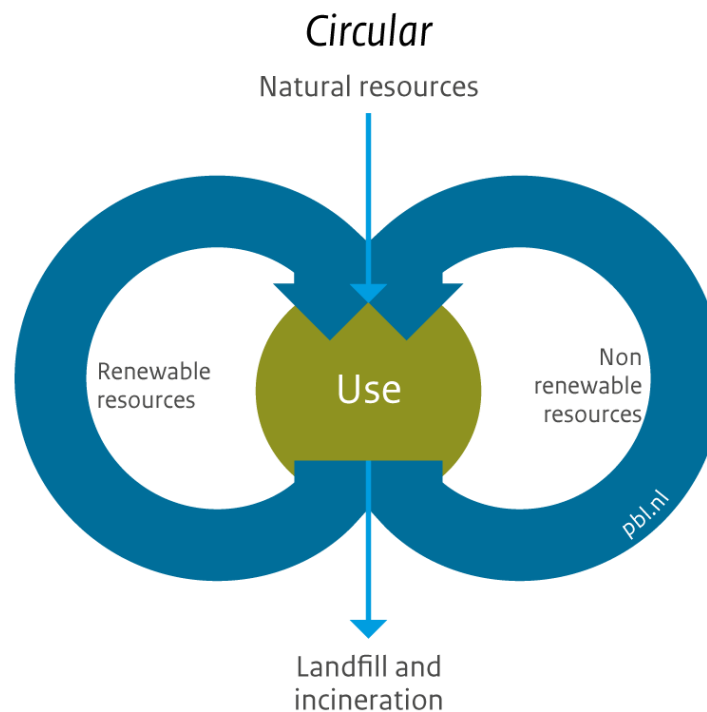
Actors participating in Dutch 'Green Deals' circular economy



From a linear to a circular economy



Source: PBL



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Diversity in Green Deals: five examples

Green Deal 92. Insects for Food, Feed and Pharma

Innovation issue: European legislation

Green Deal 96. The benefit of horse manure

Innovation issue: technical processing

Green Deal 158. Fair Meter

Innovation issue: joining in the ongoing process of Smart Meter roll-out

Green Deal 178. Circular Buildings

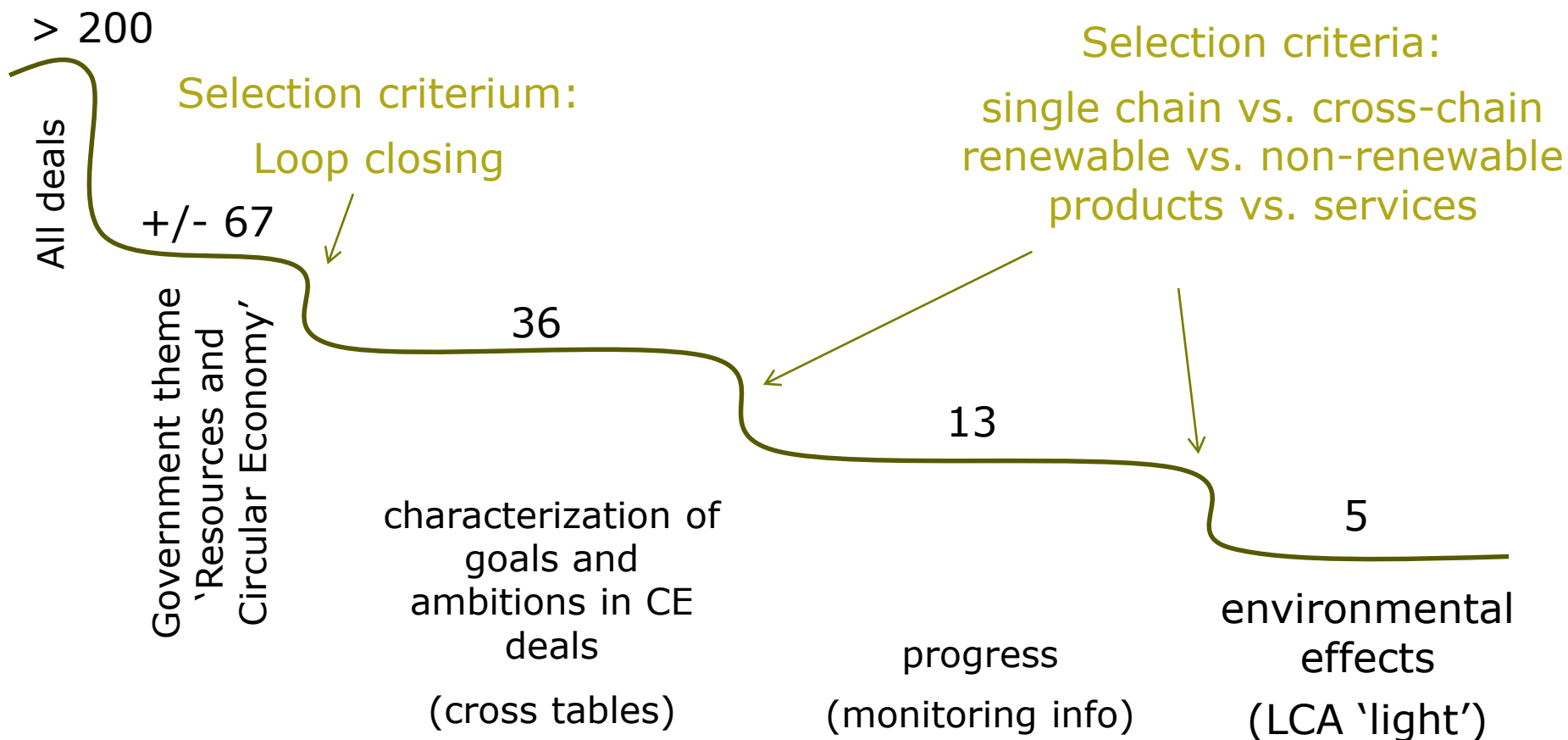
Innovation issue: consensus about 'circularity passport'

Green Deal 183. Car Sharing

Innovation issue: scale-up from +/- 15.000 to 100.000 in 2018

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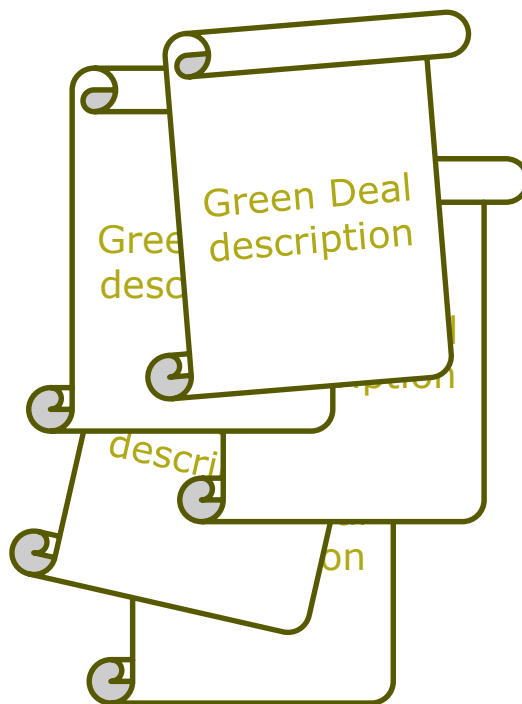
Evaluation approach



Evaluation of goals and ambitions in 36 deals

PBL effort

Making cross tables for:
circularity
innovation
economy
environment



PBL output

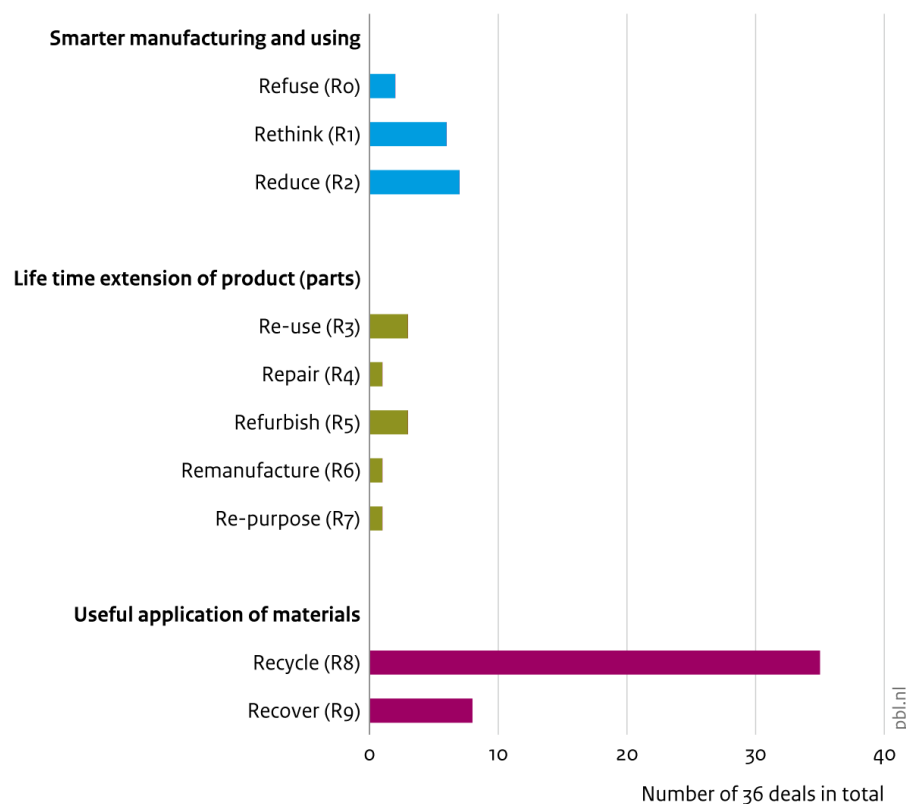
Graphical
representation
of
occurrence
of
specific goals and
ambitions

Draft translations

Evaluation of goals and ambitions in 36 deals

Goals and ambitions of Dutch 'Green Deals' circular economy according to the R priority ladder, 2015

Example: graphical representation of goals and ambitions with respect to circularity



Source: PBL

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Evaluation of progress made with 13 deals

PBL effort

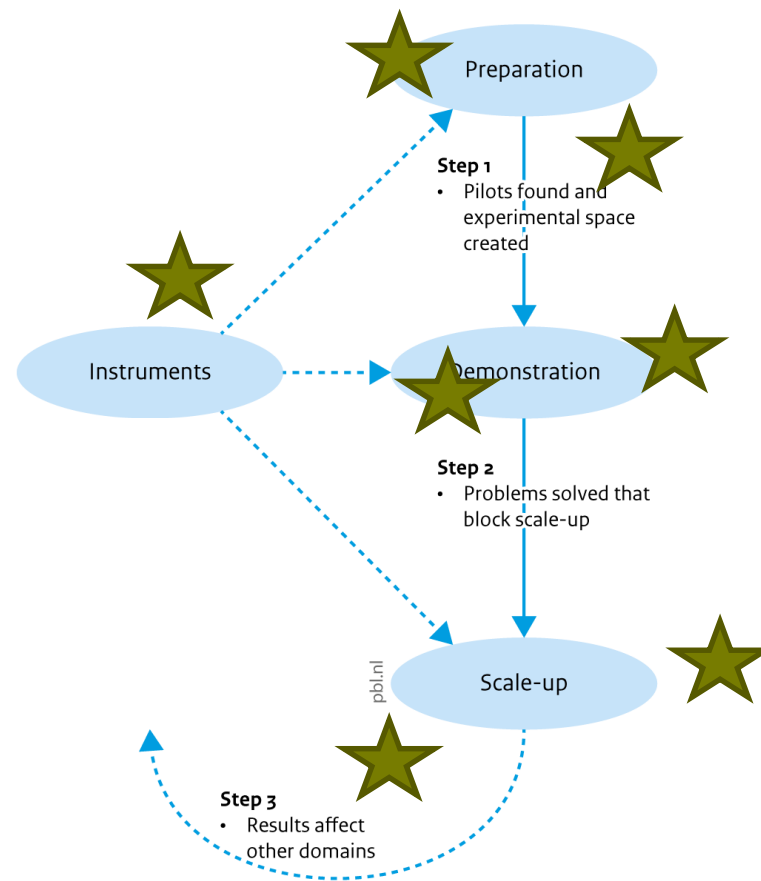
Unlocking raw
data



PBL output

description of
progress in
terms of:
circularity
innovation
economy
environment

Progress: meaningful contribution to knowledge sharing, piloting and roll-out of innovations



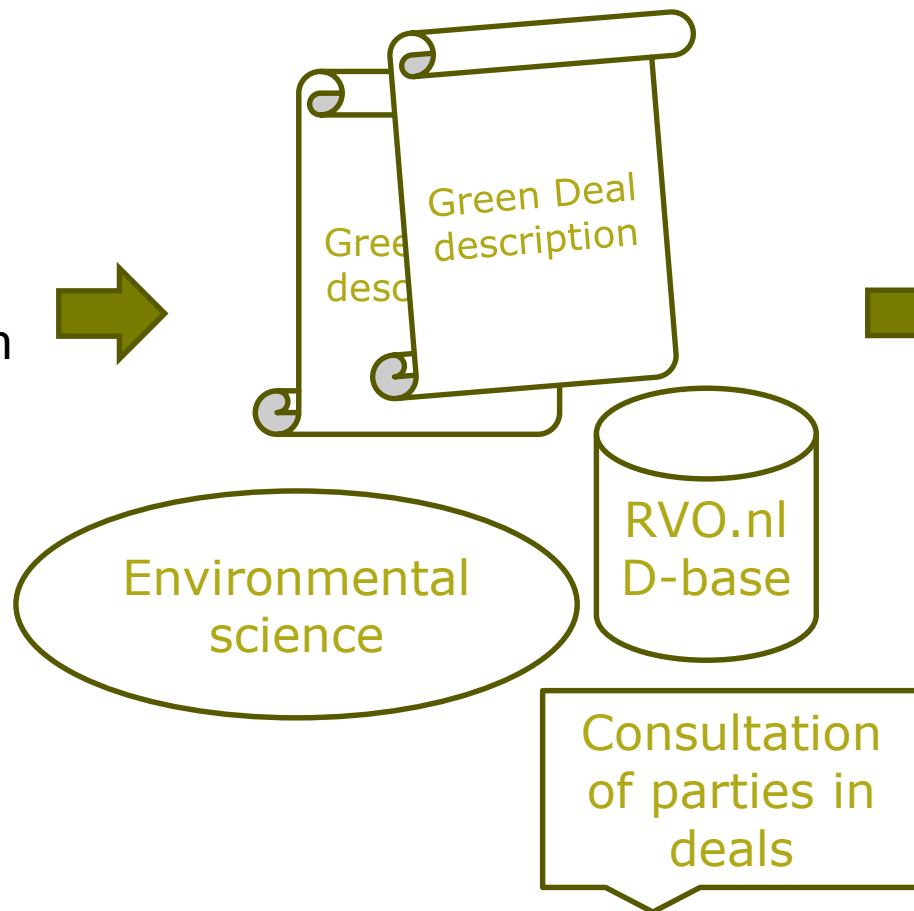
Source: PBL

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Evaluation of environmental gains for 5 deals

PBL effort

LCA 'light'
triangulation
of data



PBL output

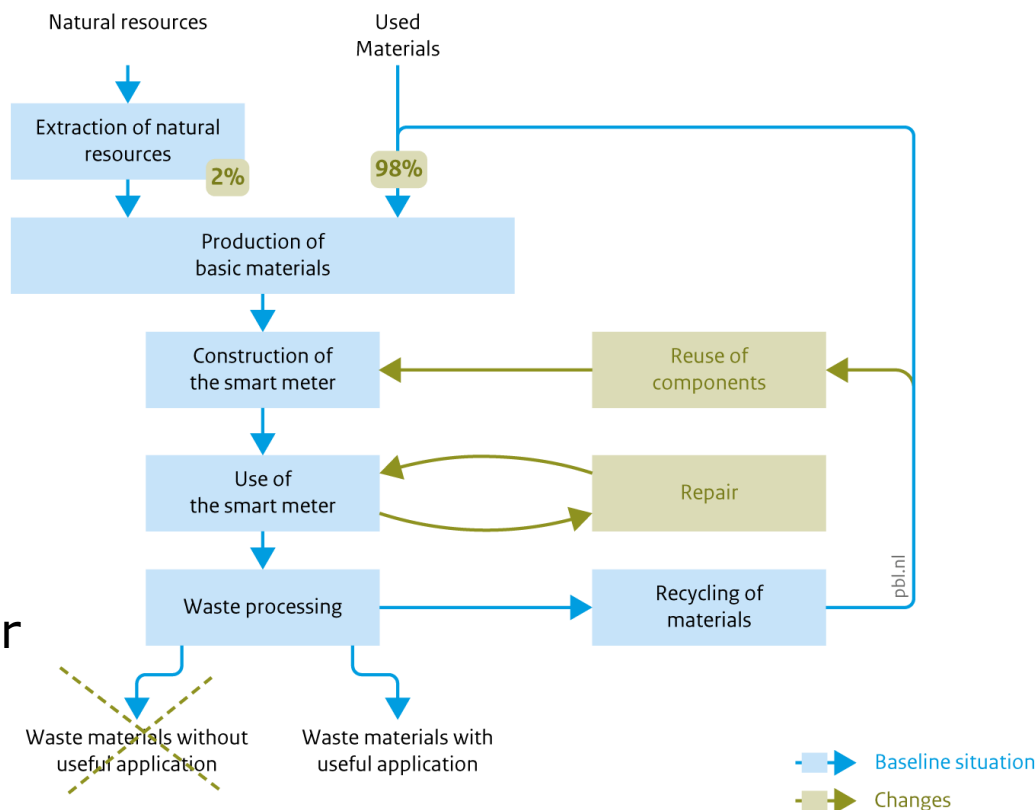
Graphical
representations
of changes in life
cycle for each
deal

Key
environmental
messages

Evaluation of environmental gains for 5 deals

Example: Green Deal 'Fair Meter'

Life cycle changes Green Deal Fair Meter



Source: Van der Harst; adaptation PBL

Issues:

- Environmental gain is probable, but unsure: baseline (Smart Meter) is still in development
- Use of recycled materials for this product competes with use in other products

Main conclusions

- The Green Deal approach is useful to the process of green innovation
- Besides Green Deals, other policies remain needed to achieve widespread deployment of green innovations
- Green Deals do not necessarily lead to environmental benefits
- The green claims, as laid down by the parties, are mostly not underpinned, nor evaluated
- Recycling is still the dominant strategy, while re-use and circular design are often more promising in terms of environmental gains

Policy recommendations

- Steer, despite the bottom-up nature of Green Deals, more towards “green”
- Provide for ex-ante independent screening of proposed deals for environmental gains (LCA ‘light’)
- Change the central monitoring system: use indicators that match the innovation phase (see Annex to these slides)

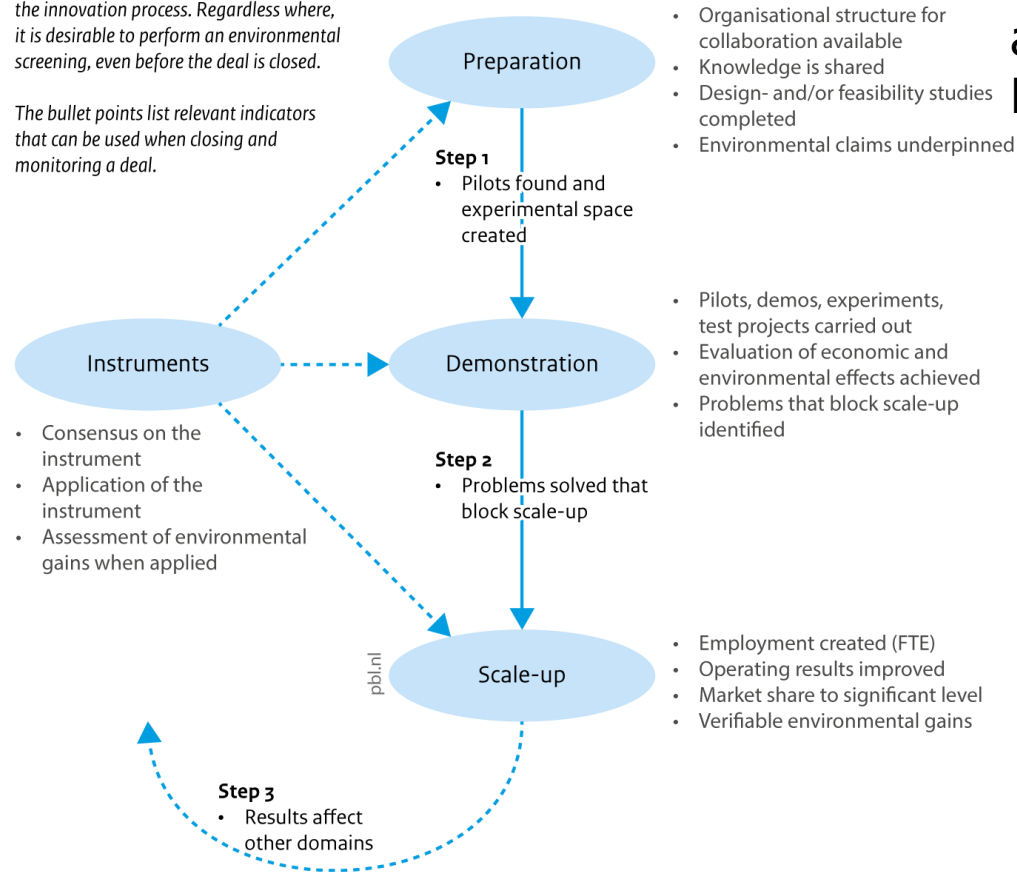
Implications for policy evaluation

- ‘Golden standard’ for policy evaluation (input, throughput, output, impact ect.) is of not much use here
- Tailor-made design and motivation of evaluation framework needed for this kind of policy instrument
- Evaluation of EC ‘Innovation Deals’...

Process scheme Dutch 'Green Deals'

Green Deals can be closed at any place in the innovation process. Regardless where, it is desirable to perform an environmental screening, even before the deal is closed.

The bullet points list relevant indicators that can be used when closing and monitoring a deal.



Source: PBL

Annex: 'Green Deal' indicators as proposed by PBL

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