

PGS new style

Directives based on risk assessment

17th of May 2017

Process Safety Congres

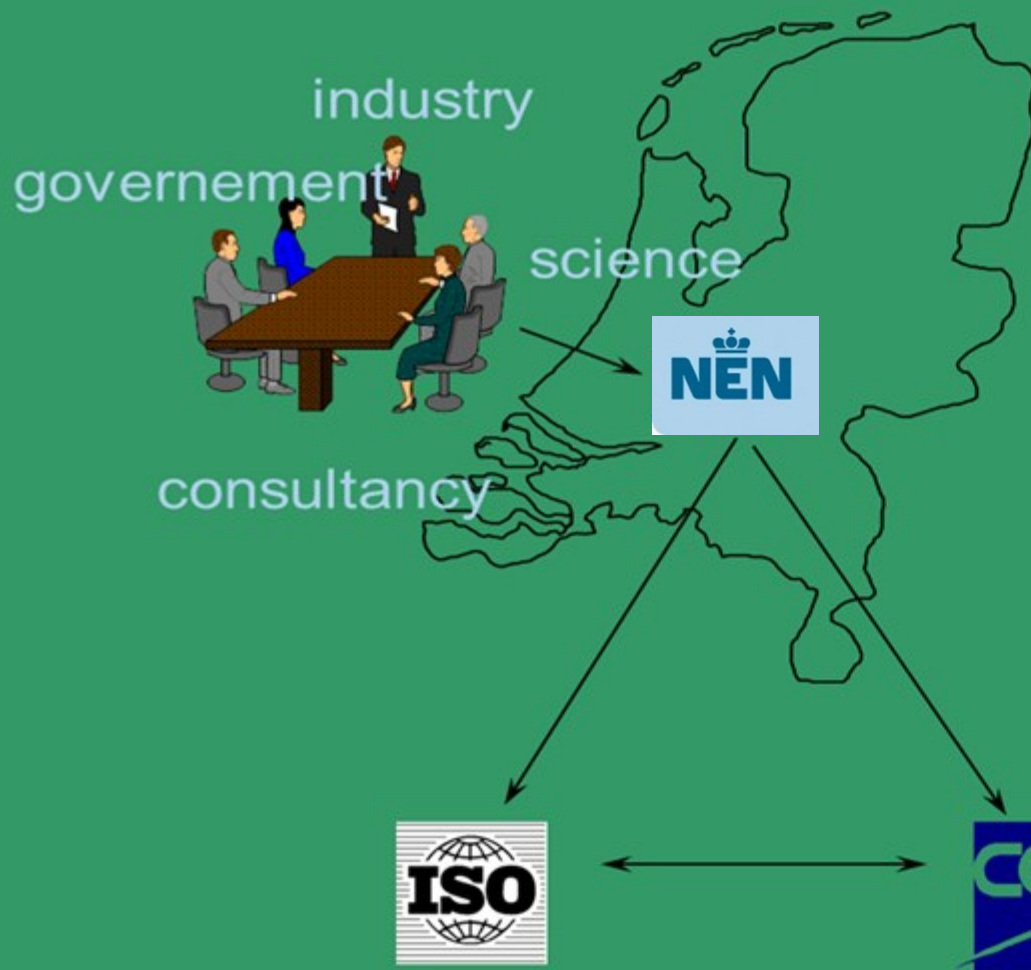
Robby Veders (NEN)



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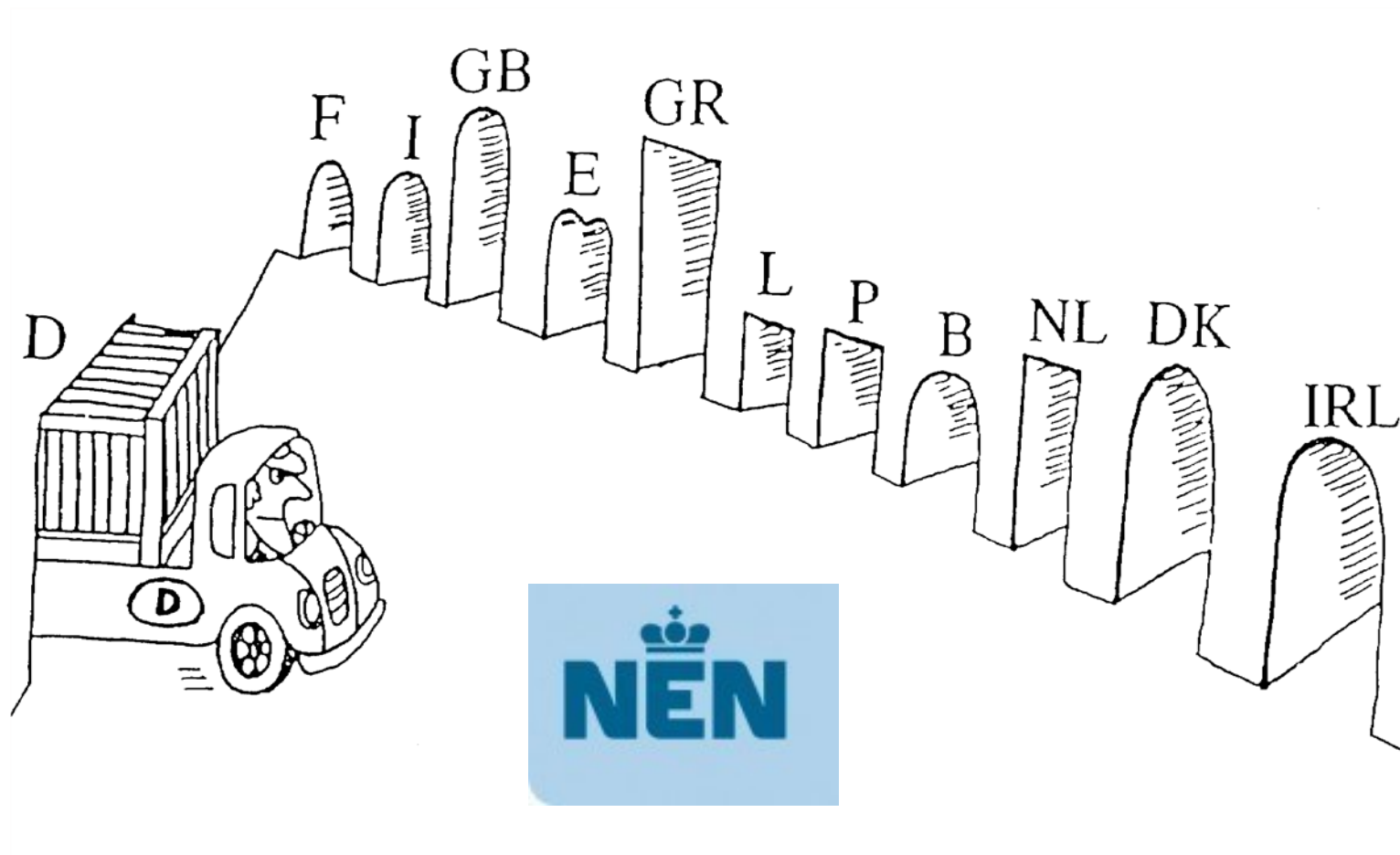


Dutch Standardization Institute
(NEN) (since 1916)

- > 300 fte personel
- > 800 commissions
- > 8000 commission members
- > 29.400 Standards in management

- > Process management for different types of agreements
- > NEN, NTA, EN, ISO, PGS, etcetera

Together for compatibility!



Why PGS in new style?



Room for improvements...

- Goals behind the requirements aren't clear
 - According to the regulatory agencies PGS's should be implemented in detail
 - Equivalence of alternative safety measures proves hard to demonstrate
- Lengthy discussion in teams on details, thereby losing sight of the main goals.
- Balance in teams



The Assignment

On the 13th of June 2014 secretary of state Mansveld announced the revitalization of the PGS-series:

- Structural review of the drafting process in order to improve quality and speed.
- Renew form and content



...the solution

- Make the PGS clearer and more understandable by the use of a uniform, logical and systematical method:
 - Transparent risk-assessment
 - Unambiguous goal requirements
 - Measures to meet the goal requirements



- Provide a clear governance structure for the enactment of PGS publications.
- Include a better description of the status of a PGS publication.



What is PGS new style?



Features PGS

- A PGS directive sets requirements for the storage of and activities with hazardous substances.
- A PGS directive prescribes coherent preventive and mitigating measures (based on a risk assessment).
- The goal of a PGS directive is to reduce the risks of the storage of and activities with hazardous substances to a reasonably practically achievable level in terms of
 - Environmental safety
 - Occupational health and safety
 - Fire safety en disaster management

NB: The regulatory framework for soil protection is the Dutch directive soil protection (NRB). Soil protection is not covered in PGS directives.



PGS new style

Part A

- General description
- Risk assessment – description of scenarios

Part B

- Goals
- Measures

Part C

- Information for implementation, good practices, etc.



Risk Assessment

To be used for:

- The structure of the PGS new style
- *Companies to test whether it is reasonable to implement certain measures from a PGS directive (in specific situations)*
- *Demonstrating equivalence of an alternative measure*





Steps to be taken in risk assessment

PGS

Identification of scenarios

What could go wrong?

Determine consequences

Which consequences could come about?

Estimation of probability

Chance that a scenario will occur

Identification of safety measures

Which measures/state of art techniques are available to reduce consequences and minimize the chance of occurrence?

Consider which measures to adopt

More/better/alternative measures necessary?

High/middle-
high risks

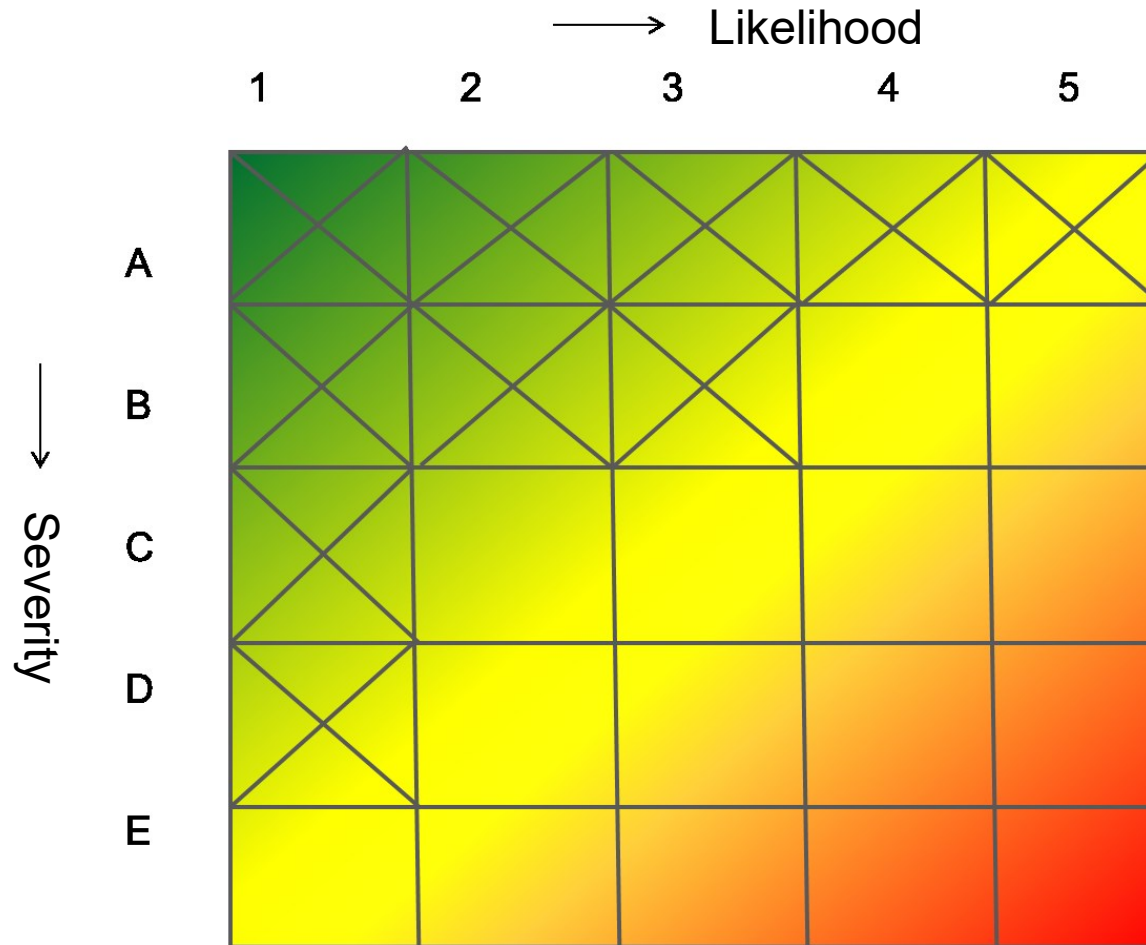


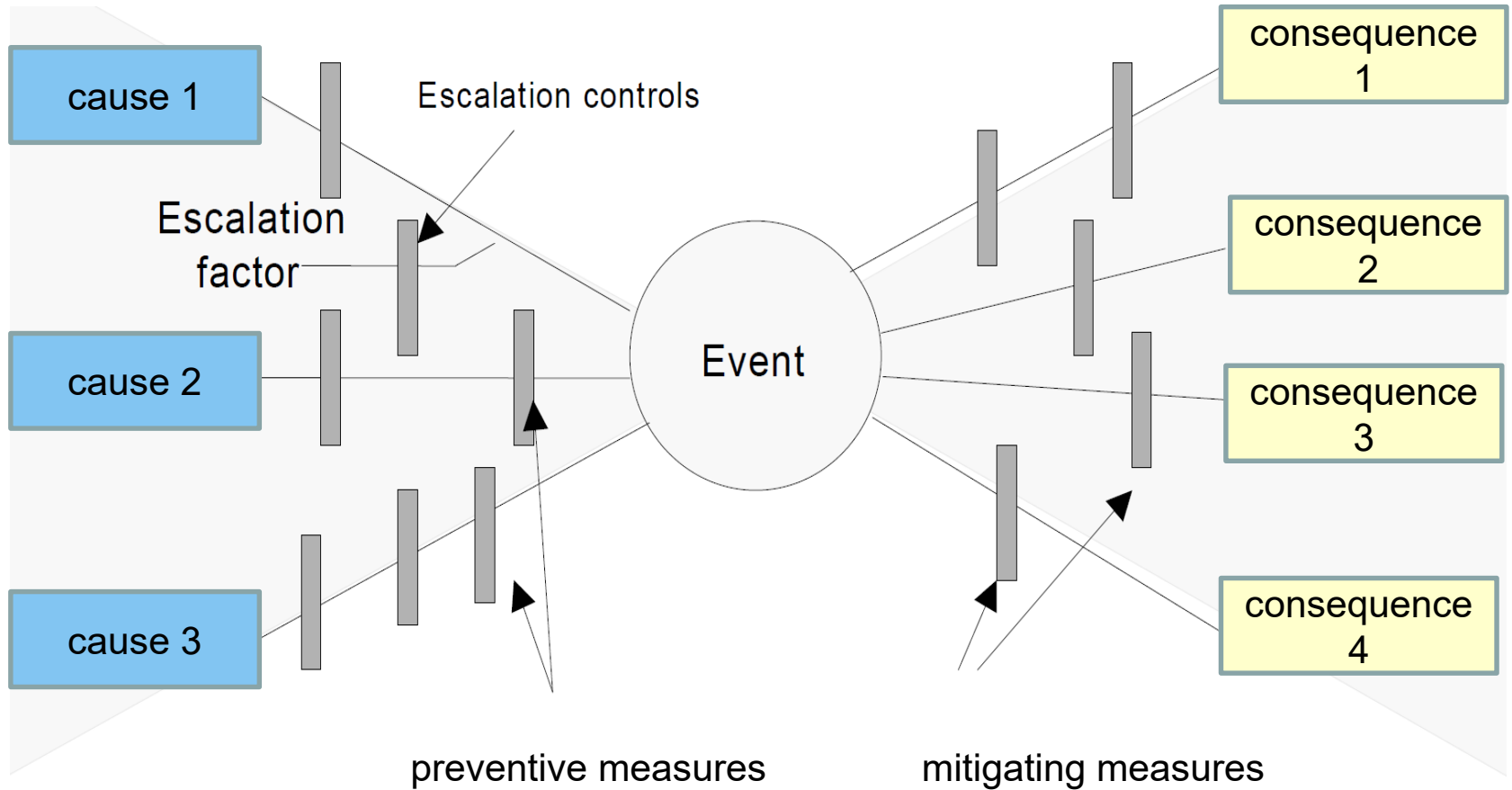
goals

measures



Risk matrix for prioritizing





What is the added value of the risk assessment?

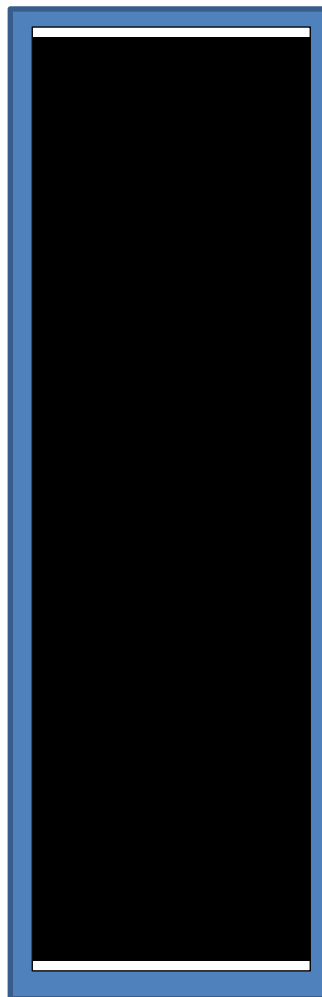
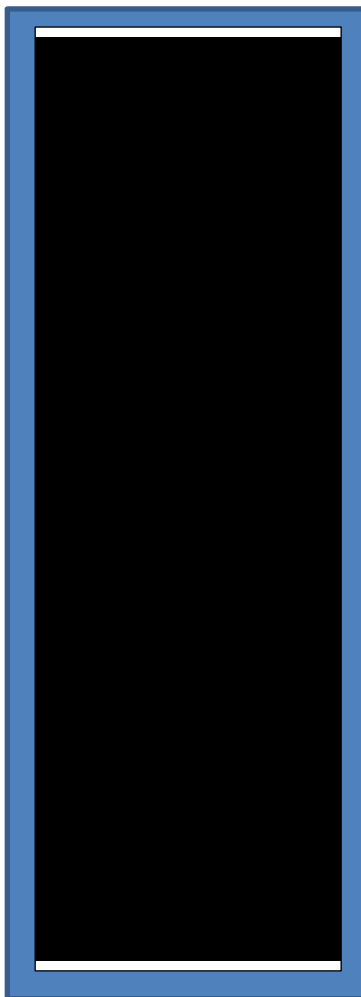
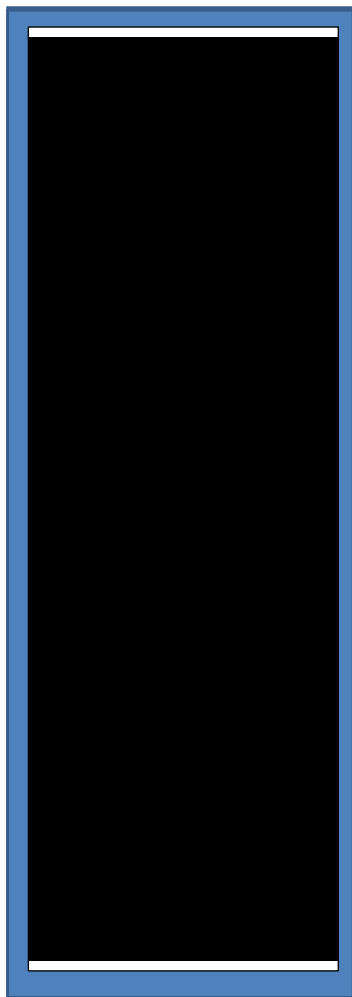
The risk assessment is an aid to:

- Chart risks systematically
 - Compare risks and make choices
- ⇒ It offers insight in why certain goals should be achieved and measures taken.









Organization and state of affairs



PGS working groups

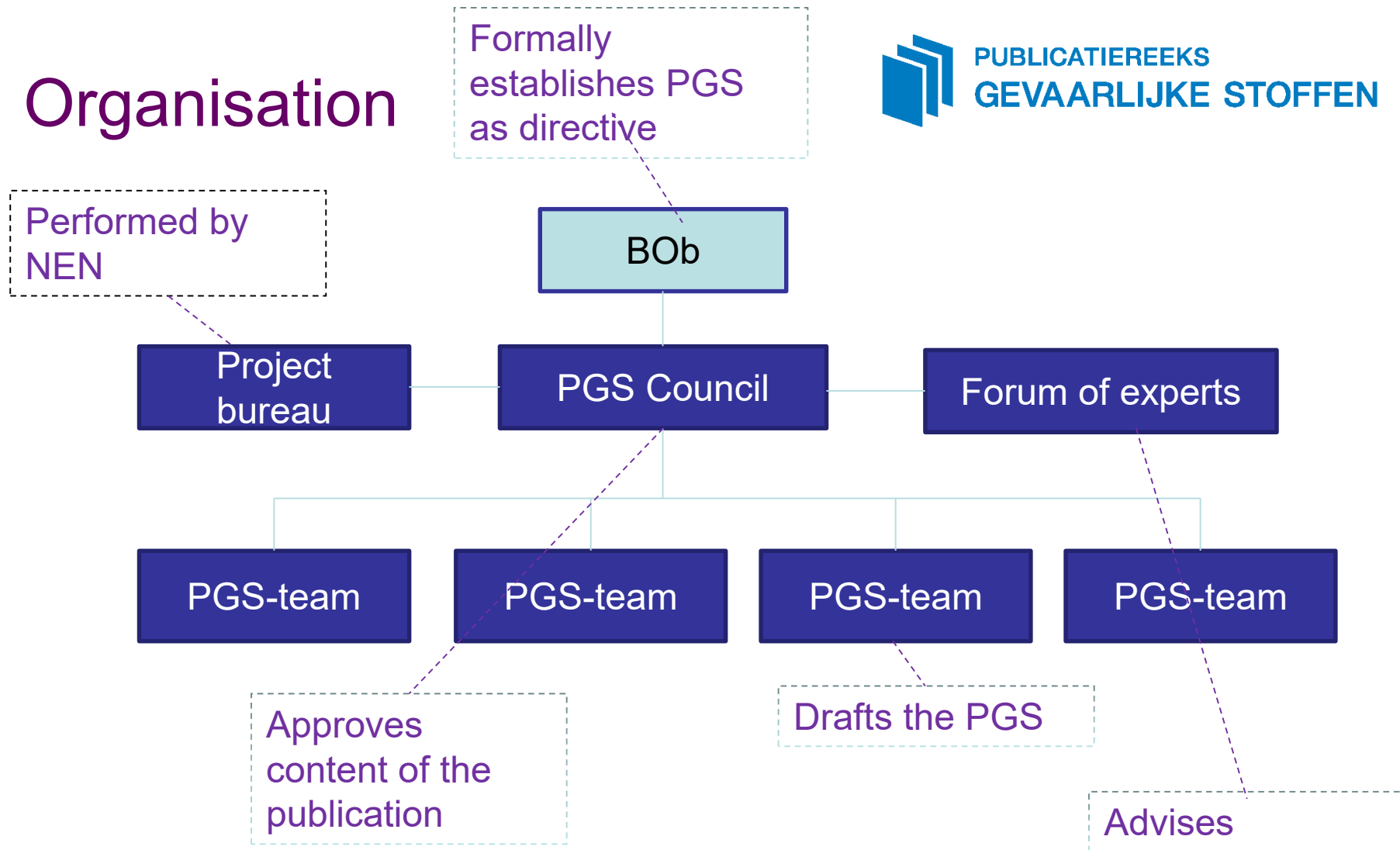
- Facilitating stronger input by governmental representatives
 - Financial impetus PGS = IOV
 - Involve representatives with the right level of knowledge
- Balance in working groups between governmental and industry representatives
 - Smaller teams
 - Not as individual expert but as representative
 - Organise input from broader range of stakeholders



Organisation



PUBLICATIEREEKS
GEVAARLIJKE STOFFEN



PGS Council = IPO, VNG, Fire brigade, I-SZW, VNO-NCW, MKB



A PGS directive established by BOB has the following status:

- Ministry of Social Affairs: policy rule
- Ministry of Infrastructure and Environment:
Implementation framework for regulatory supervision of
the Activiteitenbesluit/BAL
- Safety Regions: Directive for formal advise on
environmental permits
- IPO and VNG: Implementation framework for
environmental permits and supervision
- BRZO-supervision (Seveso): Directive listing the
necessary measures for the prevention of major
accidents



Schedule

- Development PGS new style up and running for PGS 7, 8, 9, 12, 13, 16/23, 19, 25, 26, 28, 30, 33, 35),
 - Public consultation summer 2017 (PGS 25 yet available)
 - Publication date < 1th of January 2018
- PGS 15, 29, 31 will start in Q2/Q3 2017
 - Publication date (postponed) < 1th of July 2018
- N.B. A PGS directive only acquires its legal status after it is established by the BOb! Therefore the publication date is not the date of establishment (follows after publication).



	Type I, simple transition
	Type II, full revision
	Only editorial

	Q1 2016	Q2 2016	Q3 2016	Q4 2016	Q1 2017	Q2 2017	Q3 2017	Q4 2017	Q1 2018	Q2 2018	Q3-Q4 2018
PGS 6											
PGS 7											
PGS 8											
PGS 9											
PGS 10											
PGS 12											
PGS 13											
PGS 14											
PGS 15											
PGS 16/23											
PGS 18											
PGS 19											
PGS 22											
PGS 25											
PGS 26											
PGS 28											
PGS 29											
PGS 30											
PGS 31											
PGS 32											
PGS 33-1/2											
PGS 34											
PGS 35											



Questions?

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