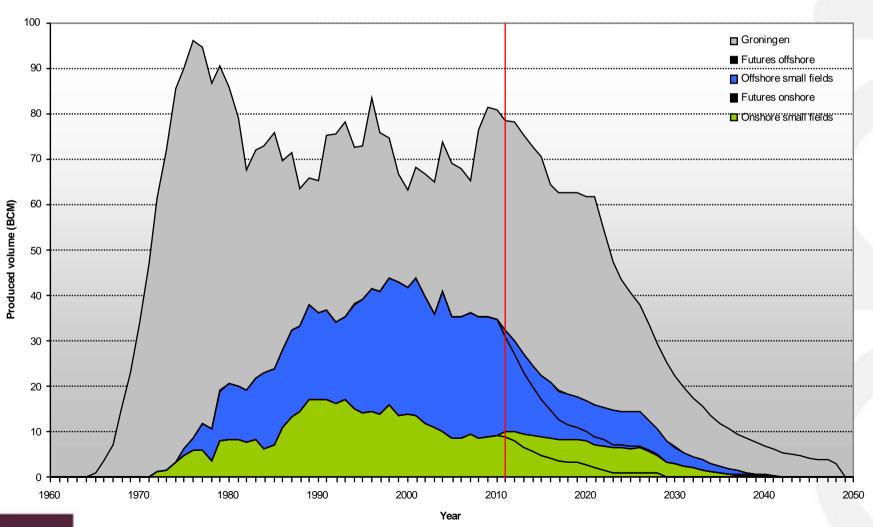




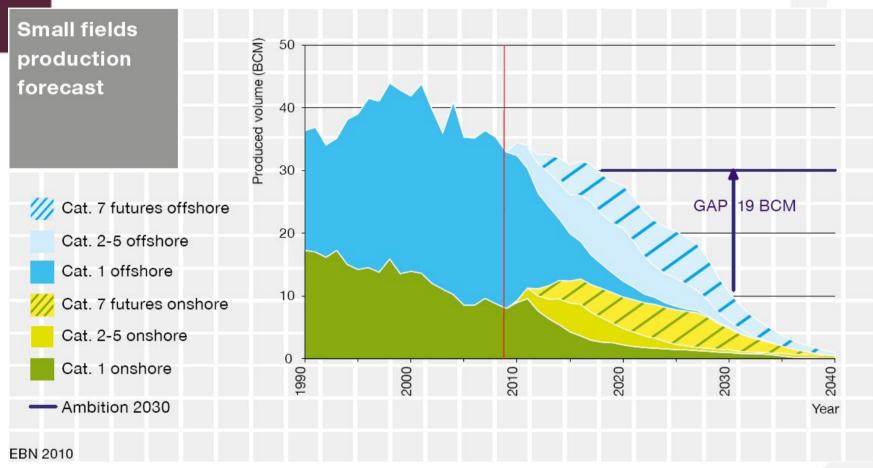
### Sense of Urgency: Trends in Dutch E&P

#### **Historic production & forecast NL**





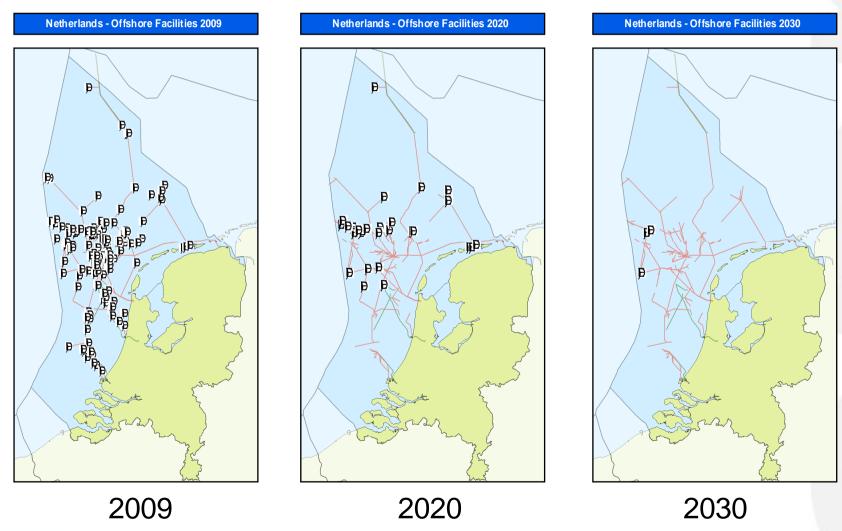
#### EBN Ambition 30/30



- Ambition to keep current production level of 30 bcm/y (outside Groningen) until 2030.
- •Current shortfall in 2030: ~19 bcm



### Infrastructure: Window of opportunity is closing



Offshore infrastructure disappearing with time



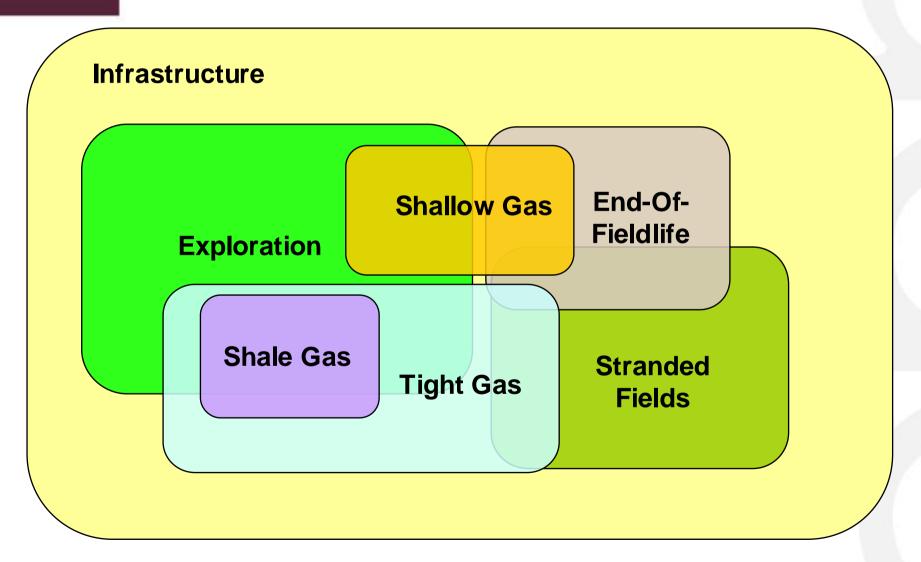
### Roadmap Approach7 Themes selected for stimulation

- 1. Exploration
- 2. Tight Gas
- 3. Shale Gas
- 4. Shallow Gas
- 5. Stranded Fields
- 6. Infrastructure
- 7. End-of-Field life

Tough reservoirs
= unconventionals



## Roadmaps: overlapping themes



Open mind for roadmap synergy!



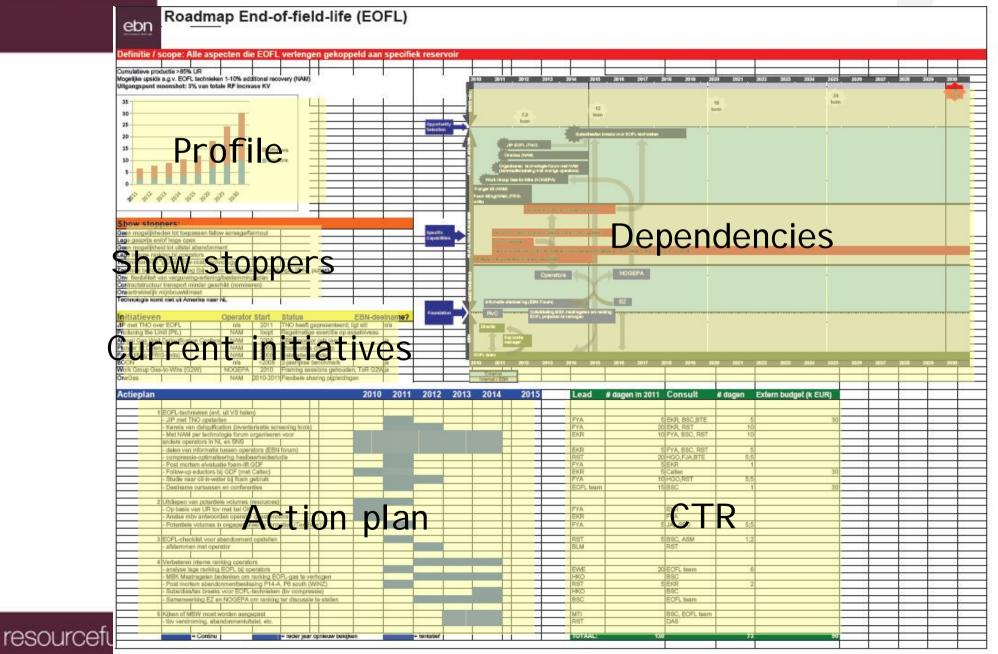
#### Roadmaps in EBN

#### For each Theme:

- 1. Moonshot definition via workshops
- 2. Identify bottlenecks for progressing volume maturation
- 3. Structured set of projects adressing bottlenecks
- Timeline and resources defined
- 5. Multi-disciplinary teams (2-4)
- 6. Single point responsibility for project delivery
- 7. Regular progress meetings & milestones
- 8. WIKI based deliverables

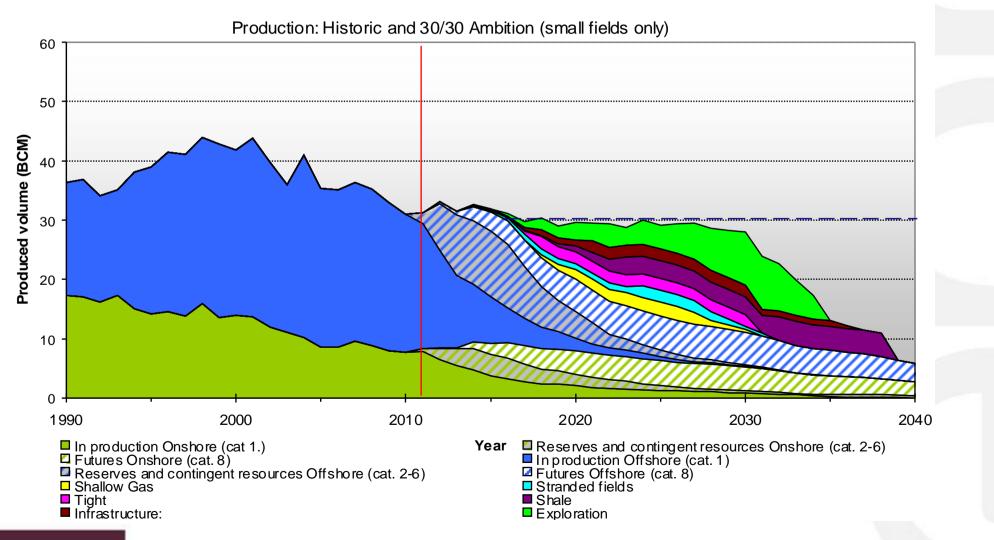


### Roadmap structuur





## Ambition: contributions from different themes





#### Shallow Gas

- Building SG portfolio
  - Regional Bright Spot mapping
  - Workflow for volumetric assessment
  - Rock properties constrained via TNO JIP
- Understanding critical issues e.g:
  - Gas saturations
  - sand production
  - Low pressures
- Promoting prospects in Open Acreage

/

1/

V

•

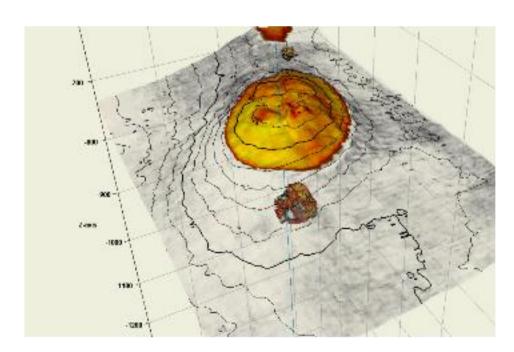
V

V



# Shallow Gas delivers!

A12-FA platform



Bright Spot: F16

