

Trends in risk level
- well barriers
2011

WIF workshop 6.6.2012

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PSA

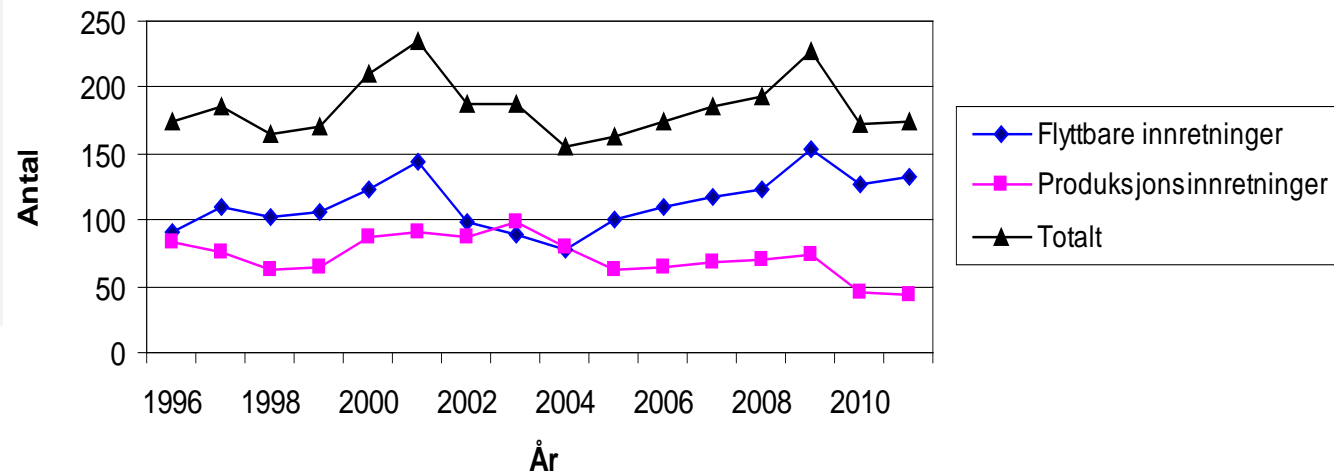
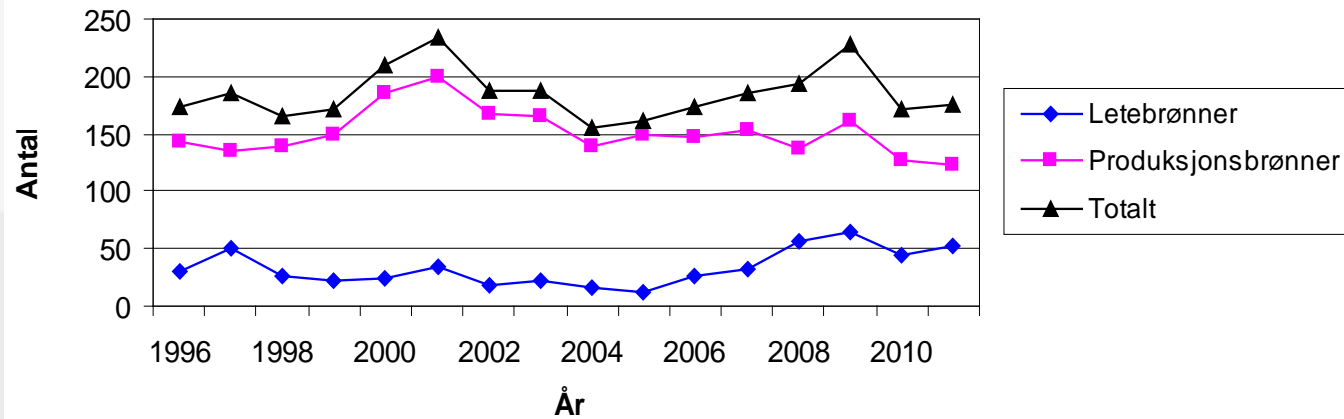


PSA focus points 2012

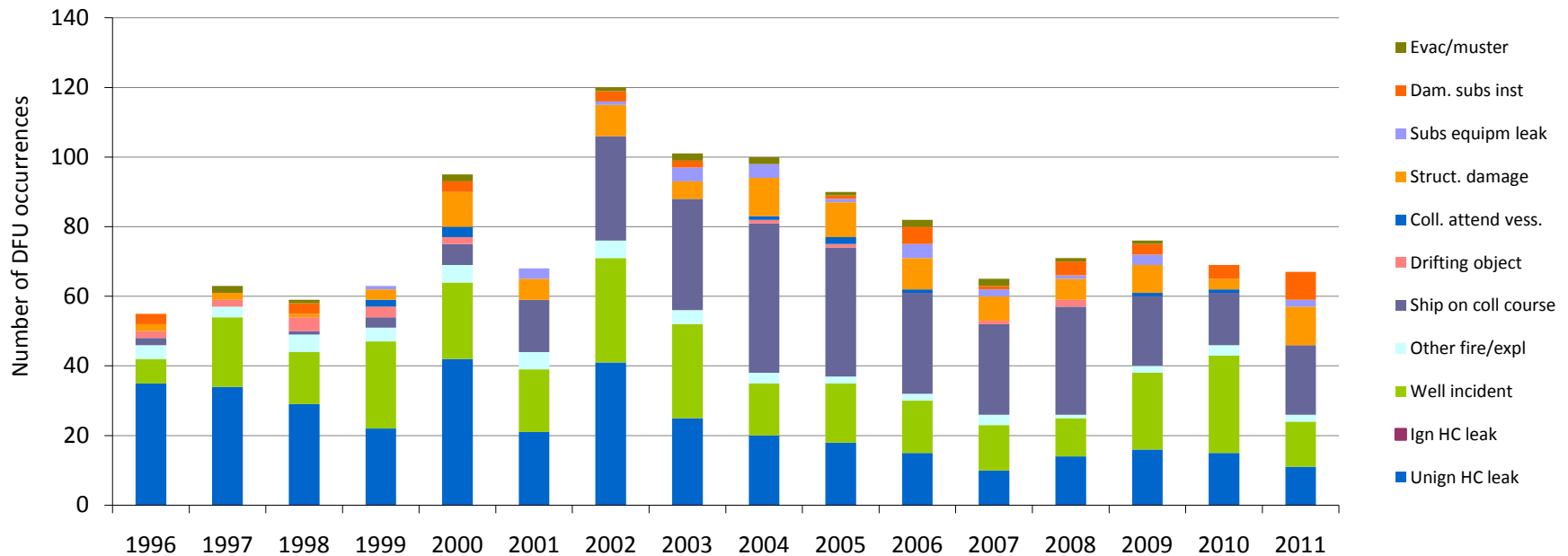
- Ongoing project on plugging and abandonment of wells
- Finalise gas lift assisted wells project reports
- Review Norsok D-010 Well integrity and drilling operation, Norsok D-001 Drilling facilities, Norsok D-002 well intervention and SR-007 Well testing requirements in 2012 / 2013
- Wellhead fatigue monitoring
- Continued follow up of DwH accident by PSA and the industry:
 - Risk management
 - Barrier management
 - Organisations and leadership
 - Capping & containment
 - BOP systems and standardisation
- Robust well design and well integrity task



Wells drilled 1996-2011



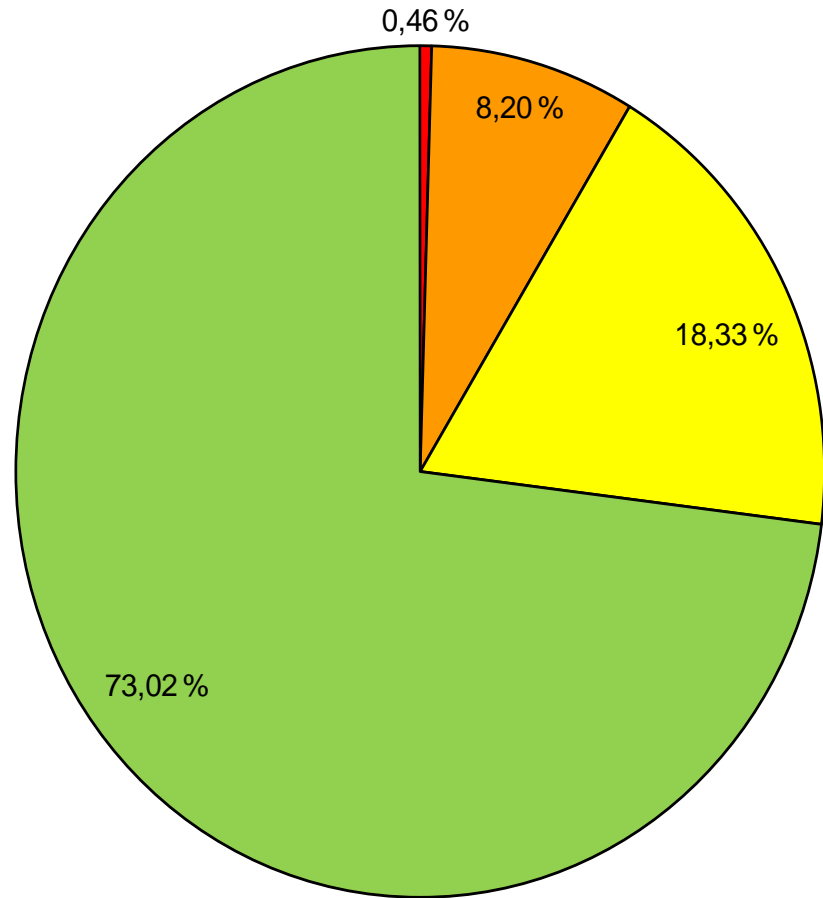
DFUs (Defined risks and incidents) related to Major Accident Risk



Well integrity – NCS 2011

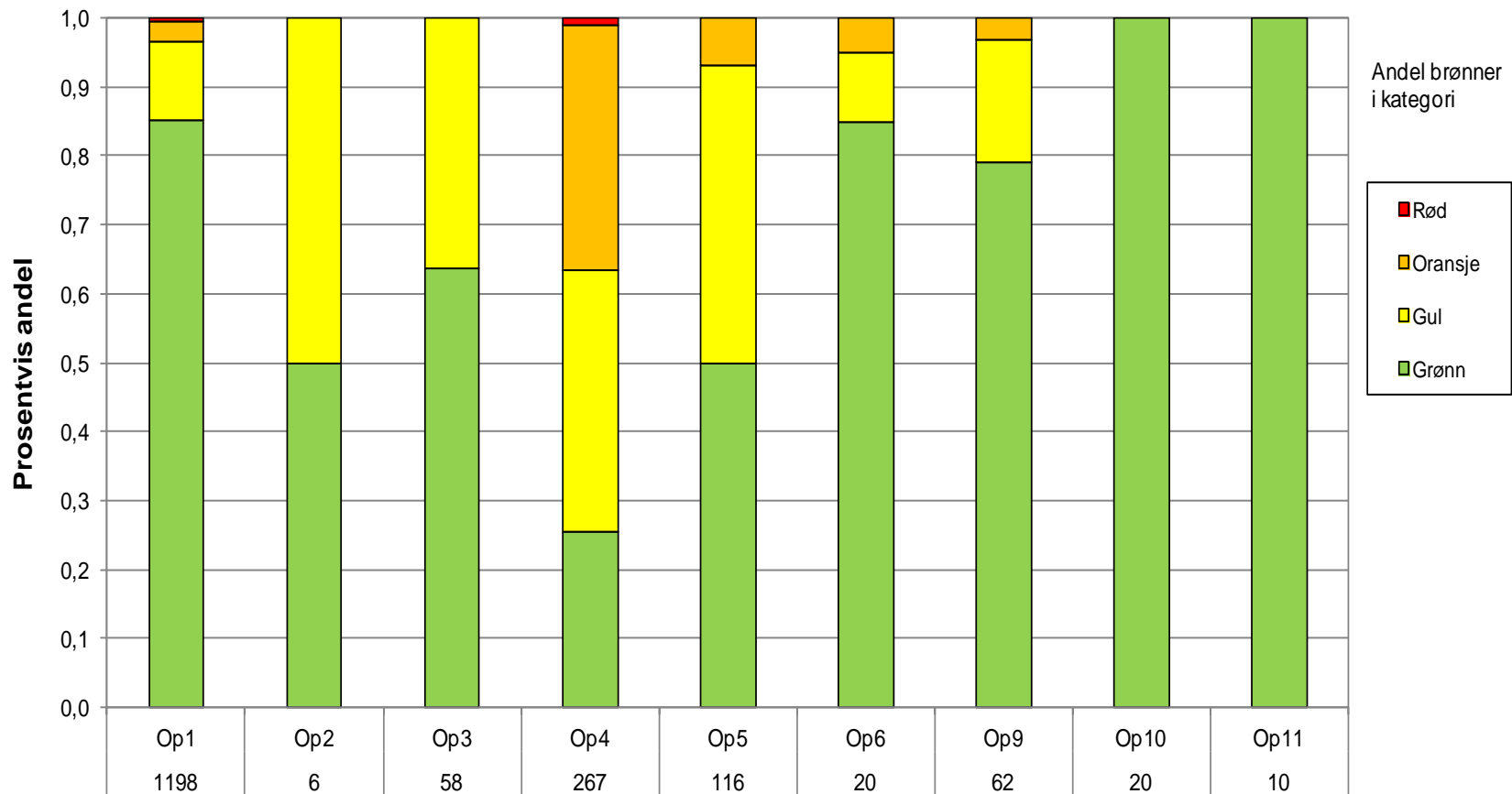
Based on 1757 reported wells

Categories according to OLF guideline 117, Well Integrity:



Category	Principle
Red	One barrier failure and the other is degraded/not verified, or leak to surface
Orange	One barrier failure and the other is intact, or a single failure may lead to leak to surface
Yellow	One barrier degraded, the other is intact
Green	Healthy well - no or minor issue

Well categorization per operator 2011



Forward work and challenges...

- 27 % of the reported 1757 wells are not healthy!
- Next year RNNP will start trending
- Green category wells to reach the 80% + ??
- Actions and measures to improve the trend
- PSA has identified a well integrity task for 2012:
 - Define the main causes of degradation and failure mechanism
 - Define the main root causes and possible actions

