



# Casing Collapse Capacity: *The art of keeping wells alive*

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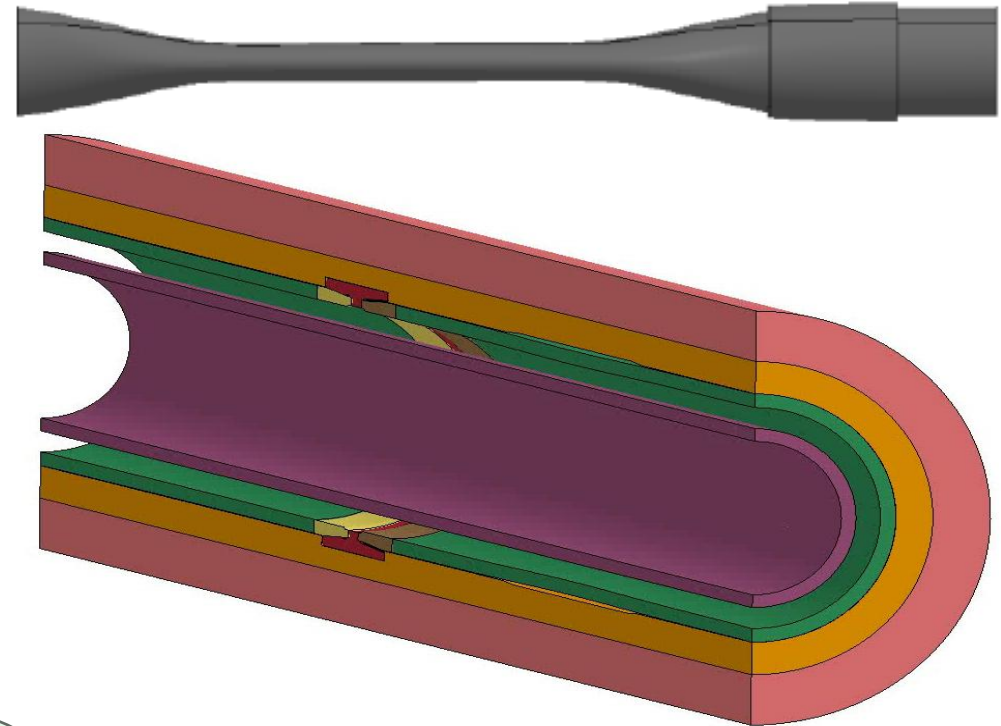
equinor

# How was it solved: Understand physics by experiments/simulations

60+ full scale casing collapse tests



Numerical models to replicate test results

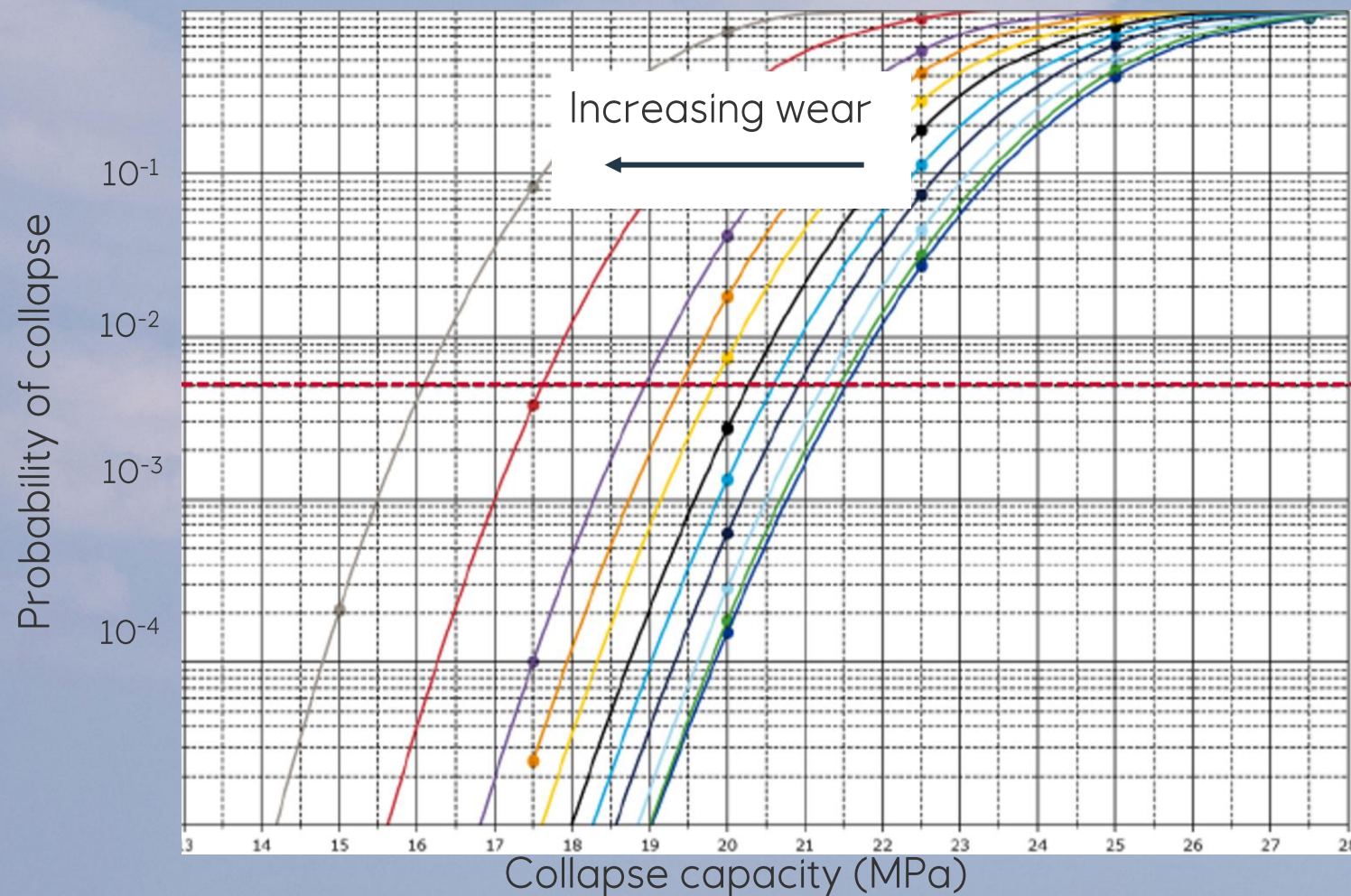


Excellent agreement!

## The result: New probability-based collapse curves

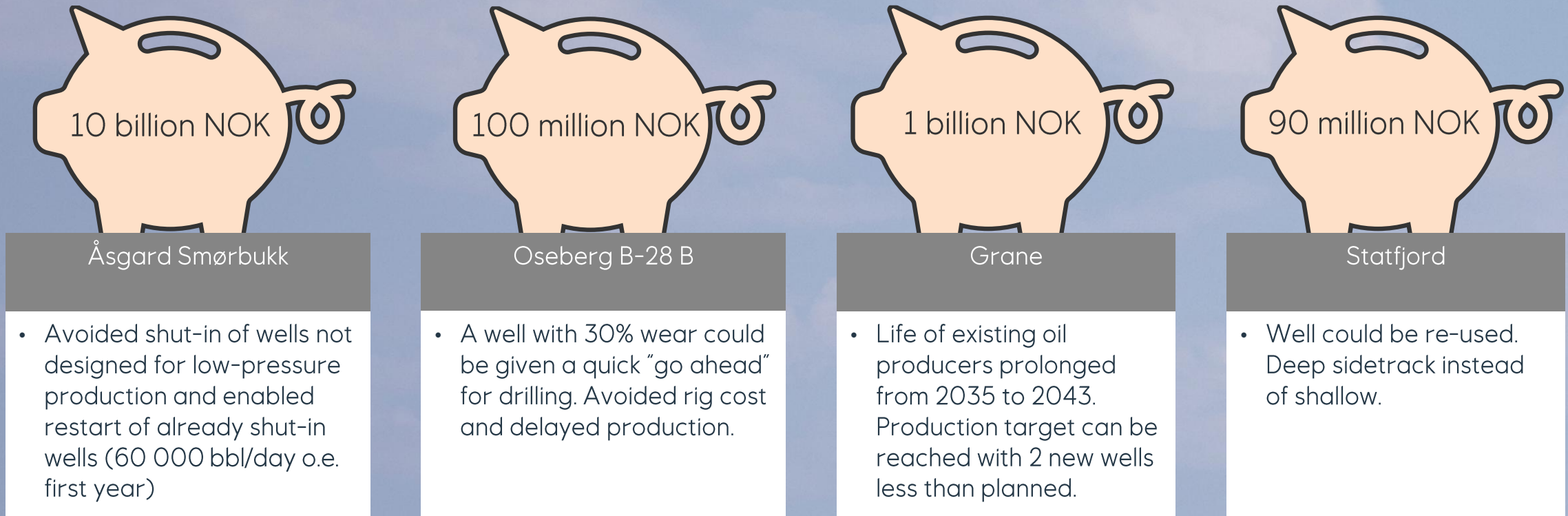
Covers all Equinor tubulars:

- Different pipe dimensions and steel types
- Different wear/wall thicknesses (0-20% of nominal)
- Different ovality, axial load, temperature and outside support
- Single- or nested tubulars





## Value of Technology: Almost ~12 bNOK



Input to dispensations for ~80 gas lift wells (maintain production). Many will also require input from the project to enable future deep sidetracks (savings in the range 10-100 million NOK relative to shallow sidetrack)



# The Casing Collapse Team



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Testing team

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