



INDUSTRIAL PH.D.

BAYESIAN MACHINE LEARNING STRATEGY FOR OIL AND GAS PRODUCTION NETWORK MODELS

ANDERS SANDNES

INDUSTRIAL PH.D.

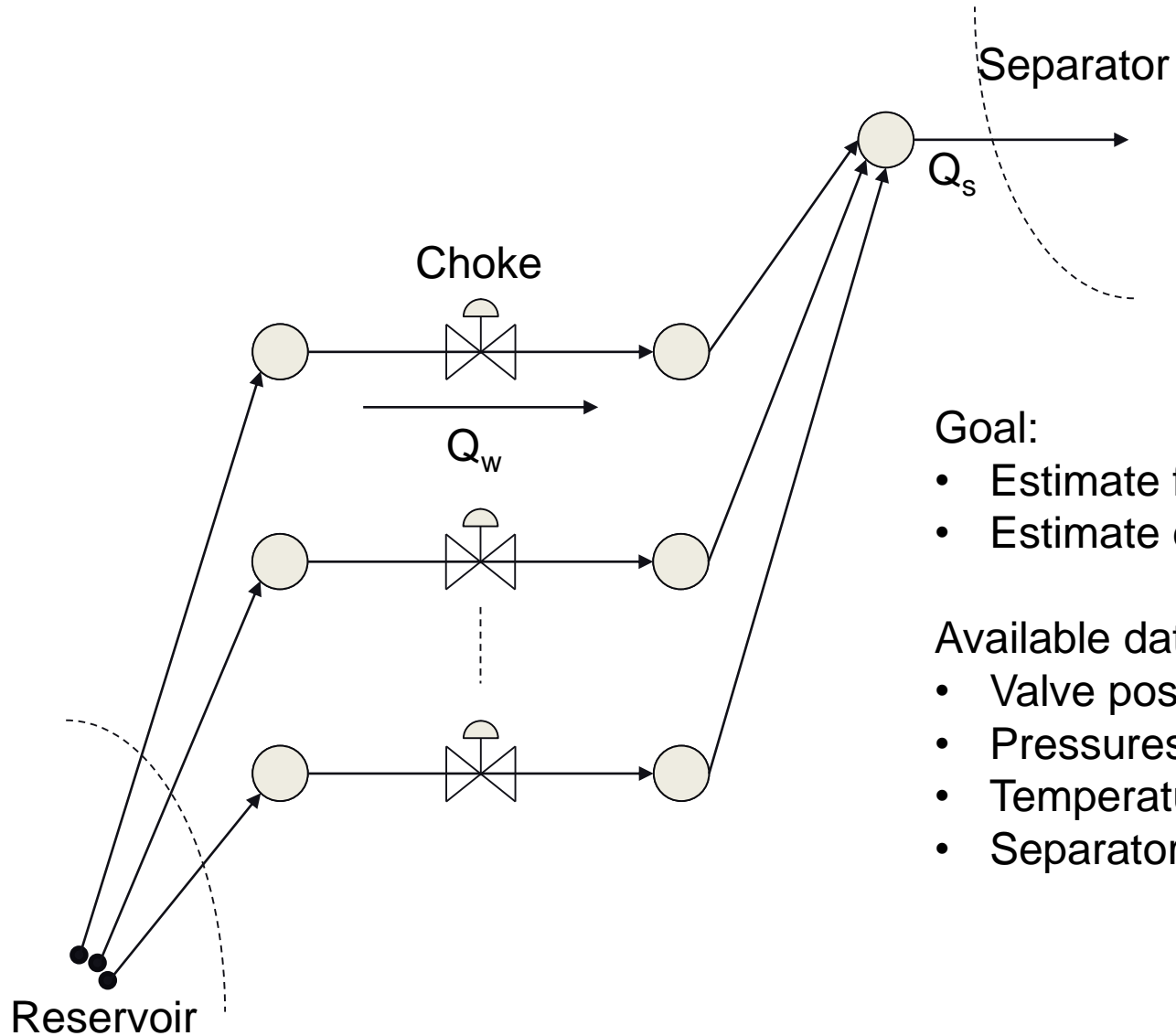


UiO : Universitetet i Oslo



Forskningsrådet

PROJECT DESCRIPTION



Goal:

- Estimate flowrate in each well.
- Estimate effect of valve adjustments.

Available data:

- Valve positions
- Pressures
- Temperatures
- Separator flow rates

BACKGROUND

Solution Seeker:

- Startup founded in 2013.
- Spin-off from NTNU research (50 scientific publications, 40 MSc's & 5 PhD's).
- Currently 15 employees.
- Specialize in machine learning and analytics on production data.

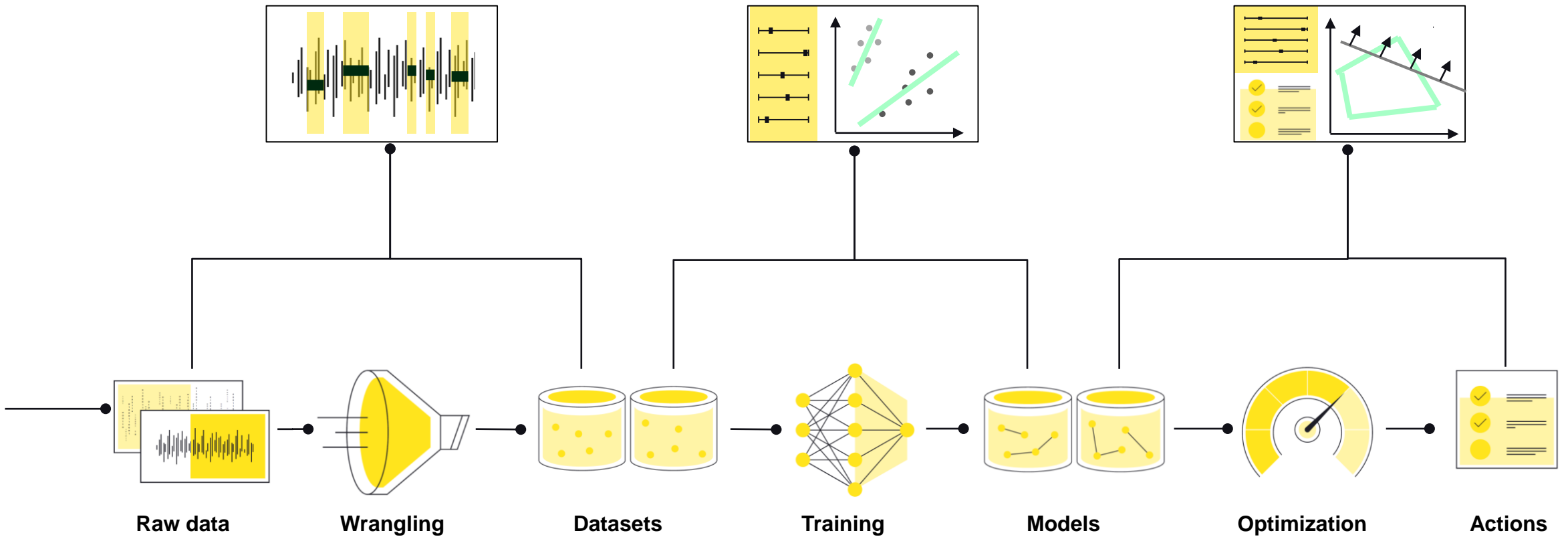
Me:

- MSc engineering cybernetics, 2013.
- First fulltime employee in Solution Seeker.
- Technical development and research.
- Currently 75% Ph.D. and 25% other Solution Seeker tasks.

Some numbers:

- 9 operators
- 1440 wells
- 17 500 measurements
- 112 700 000 000 data points

PRODUCTION COMPASS AI





THANK YOU.

anders@solutionseeker.no

www.solutionseeker.no