

Standardization of production reporting on the NCS



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why?



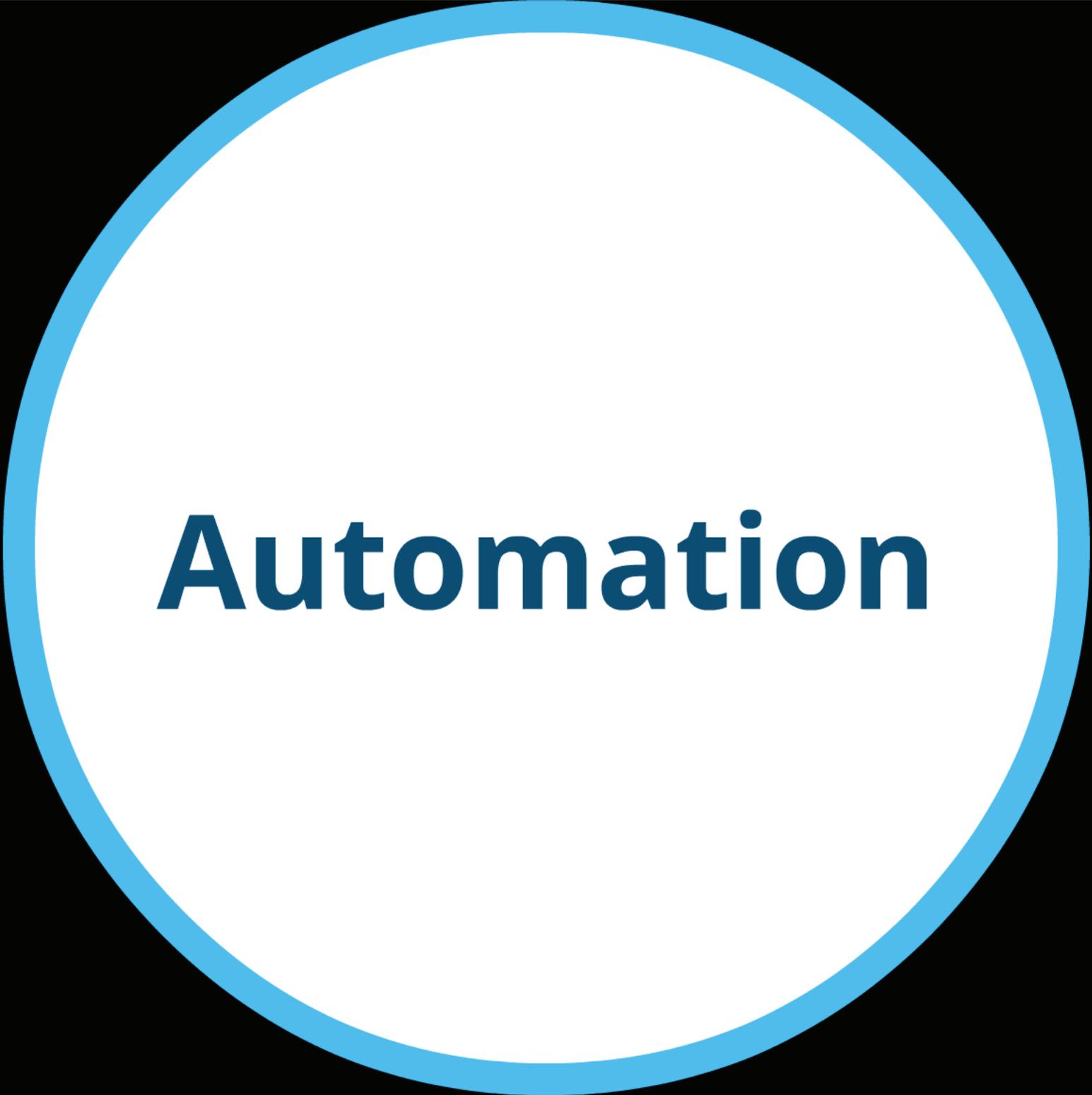
Optimize



Tracking



Reservoir



Automation



Quality



Legal



Reserves

Why?

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Quality

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Optimize

Reserves



WHAT?

Oselvar



Ula



DONG
energy



Ekofisk

ConocoPhillips



norge



Teesside



BP 35%
 StatoilHydro 20 %
 ExxonMobil 5%
 ConocoPhillips 20%
 Total 5%
 Chevron 5%
 Shell 10%



Field 1 Demo



Field 2 Demo

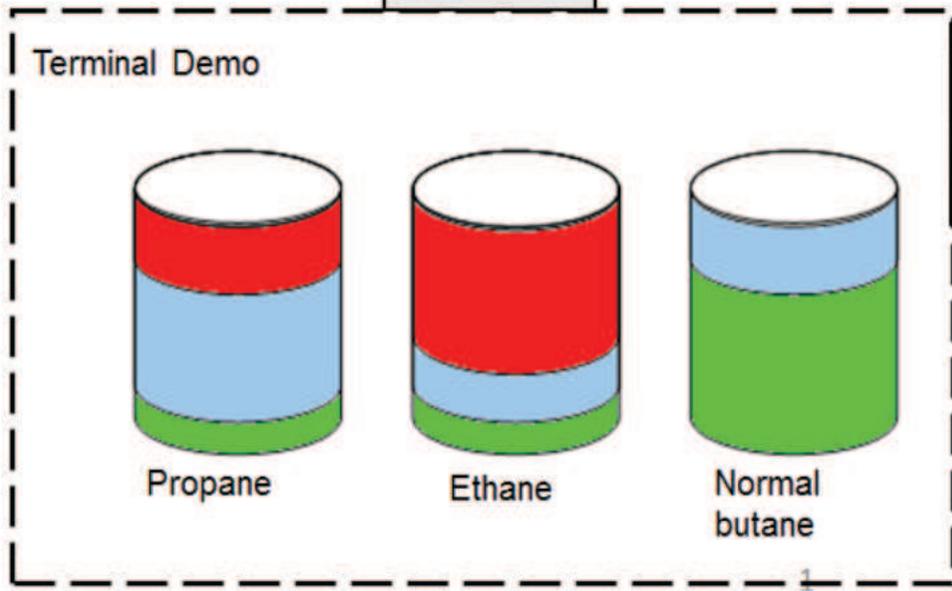
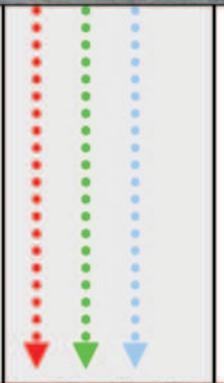
StatoilHydro 40%
 BP 20 %
 ExxonMobil 10%
 ConocoPhillips 20%
 Total 5%
 Chevron 5%



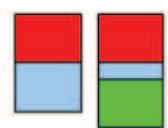
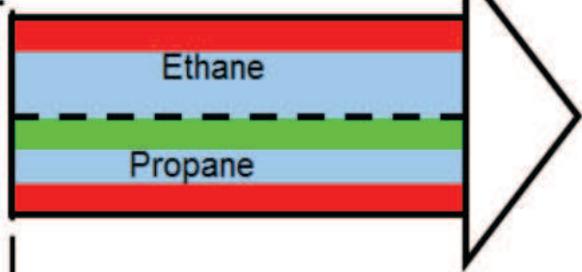
Field/Processing facility 3 Demo

ConocoPhillips 45%
 ExxonMobil 20%
 Chevron 10%
 Shell 25%

Pipeline A Demo



Sale Pipeline A



Cargo no: 1
 Batch: A-1
 Destination:
 SWE-Gothenburg-Harbour

The history

2002

- IO Program NCS
- Standardize DPR
- Developed with
Energistics
- Reference data ~ 1500
production terms
ISO15926

2005

- PRODML initiative
- Builds on work in Norway

2006

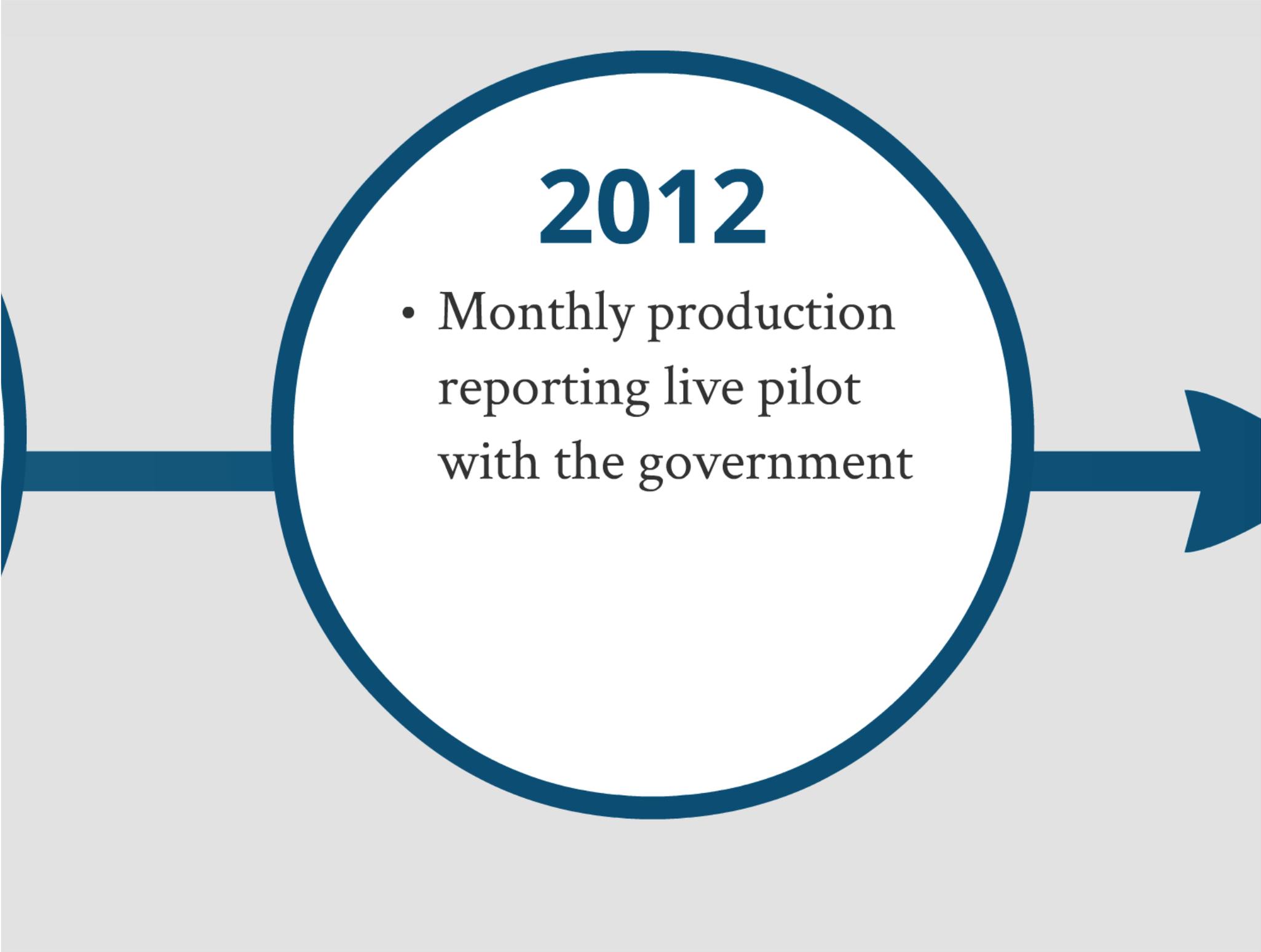
- DPR 1.0 in production
- XML Schema
- Start monthly
production reporting
Government/Partners

2008

- Monthly production reporting to the government/partners accepted
- Additions mainly in the area of cargo and stock

2011

- EPIM ReportingHub initiative

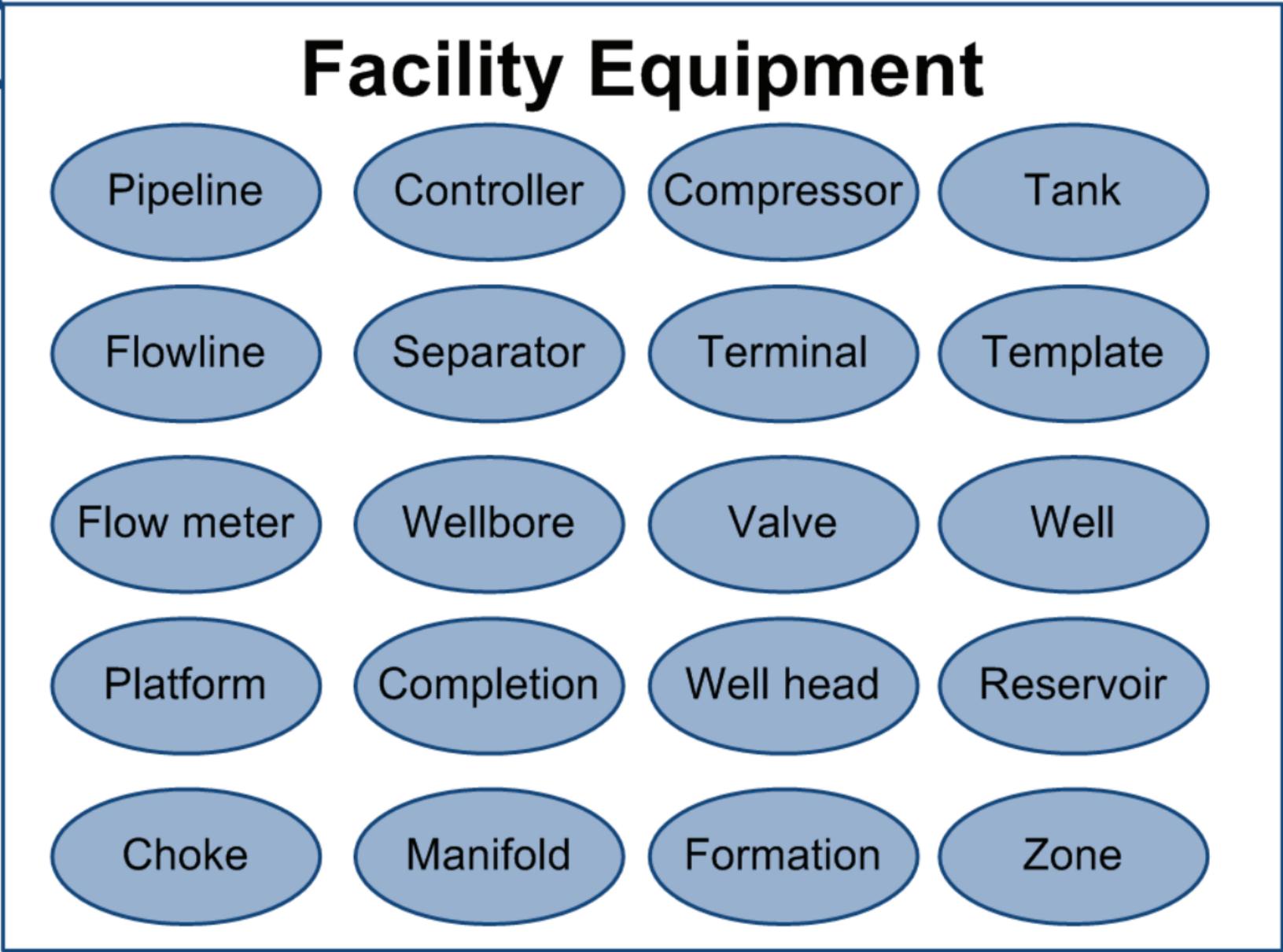


2012

- Monthly production reporting live pilot with the government

The result





The diagram features a large rectangular box with a blue border. At the top center of this box is the title "Facility Equipment" in a bold, black, sans-serif font. Below the title, there is a 5x4 grid of light blue ovals, each containing a piece of equipment. To the left of the box, there are two white triangles pointing towards the top-left corner, and a vertical line with several semi-circular shapes extending from the left edge.

Facility Equipment

Pipeline

Controller

Compressor

Tank

Flowline

Separator

Terminal

Template

Flow meter

Wellbore

Valve

Well

Platform

Completion

Well head

Reservoir

Choke

Manifold

Formation

Zone

Time dimension

MTD

Time interval

Week

Gas month

Gas year

Gas day

Month

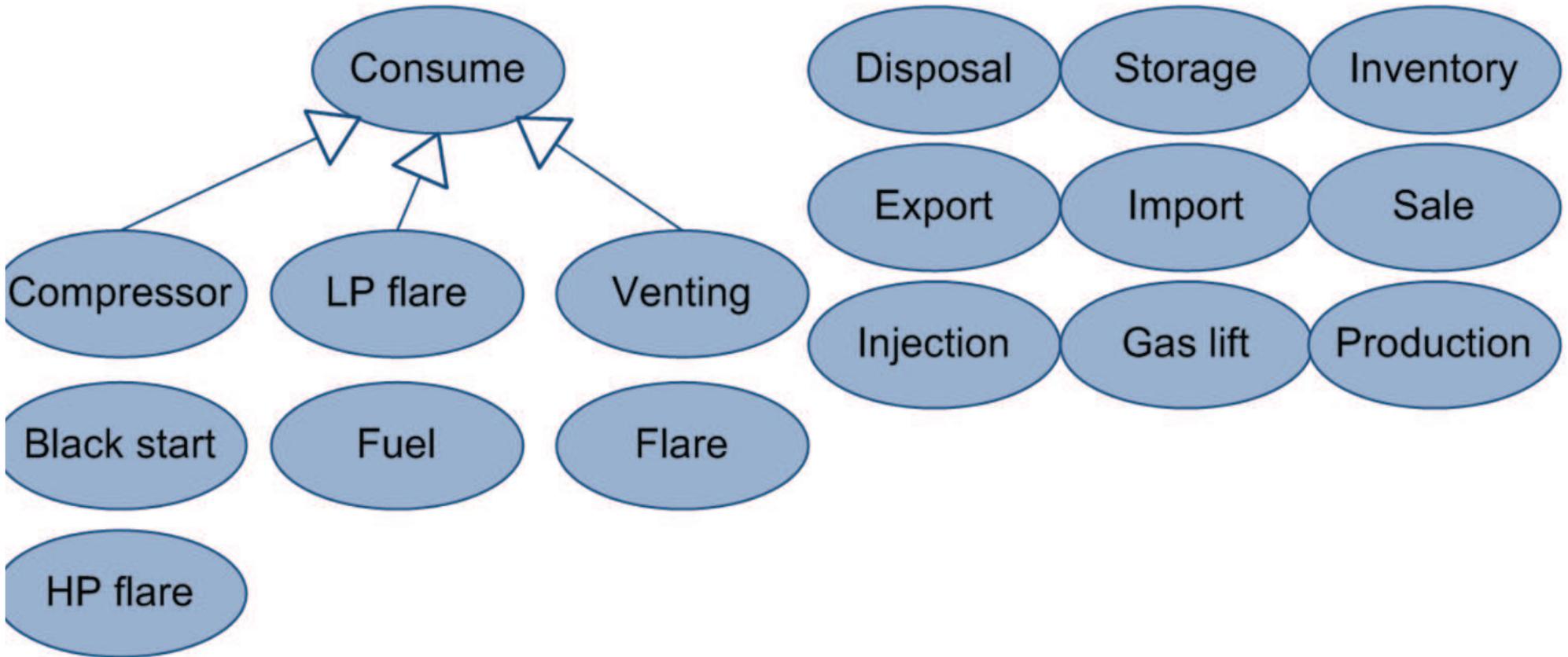
YTD

Cumulative

Day

Day

Flow type



Flow Qualifier

Allocated

Budget

Nominated

Target

Derived

Simulated

Forecast

Potential

Estimate

Mass adjusted

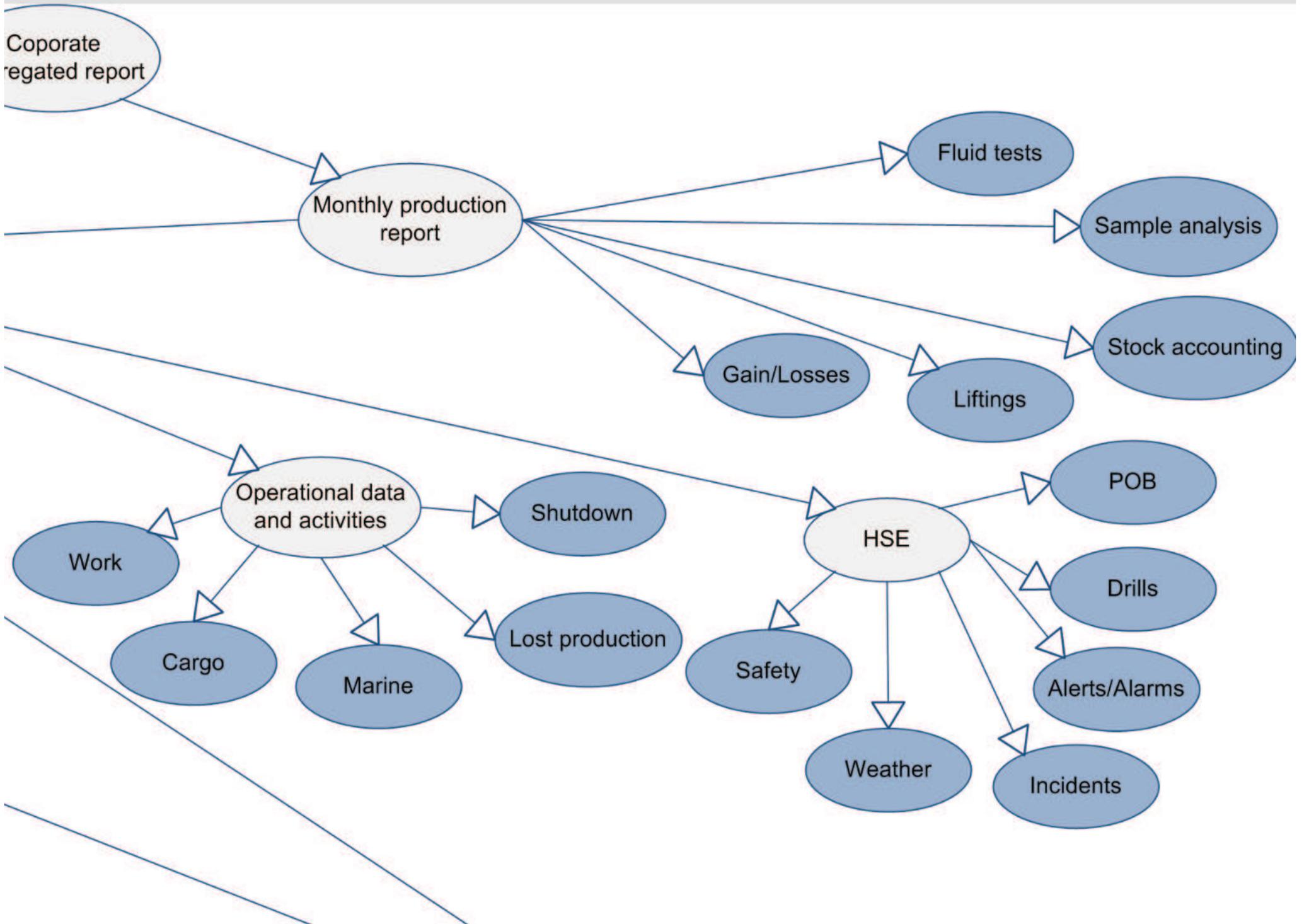
Processed

Measured

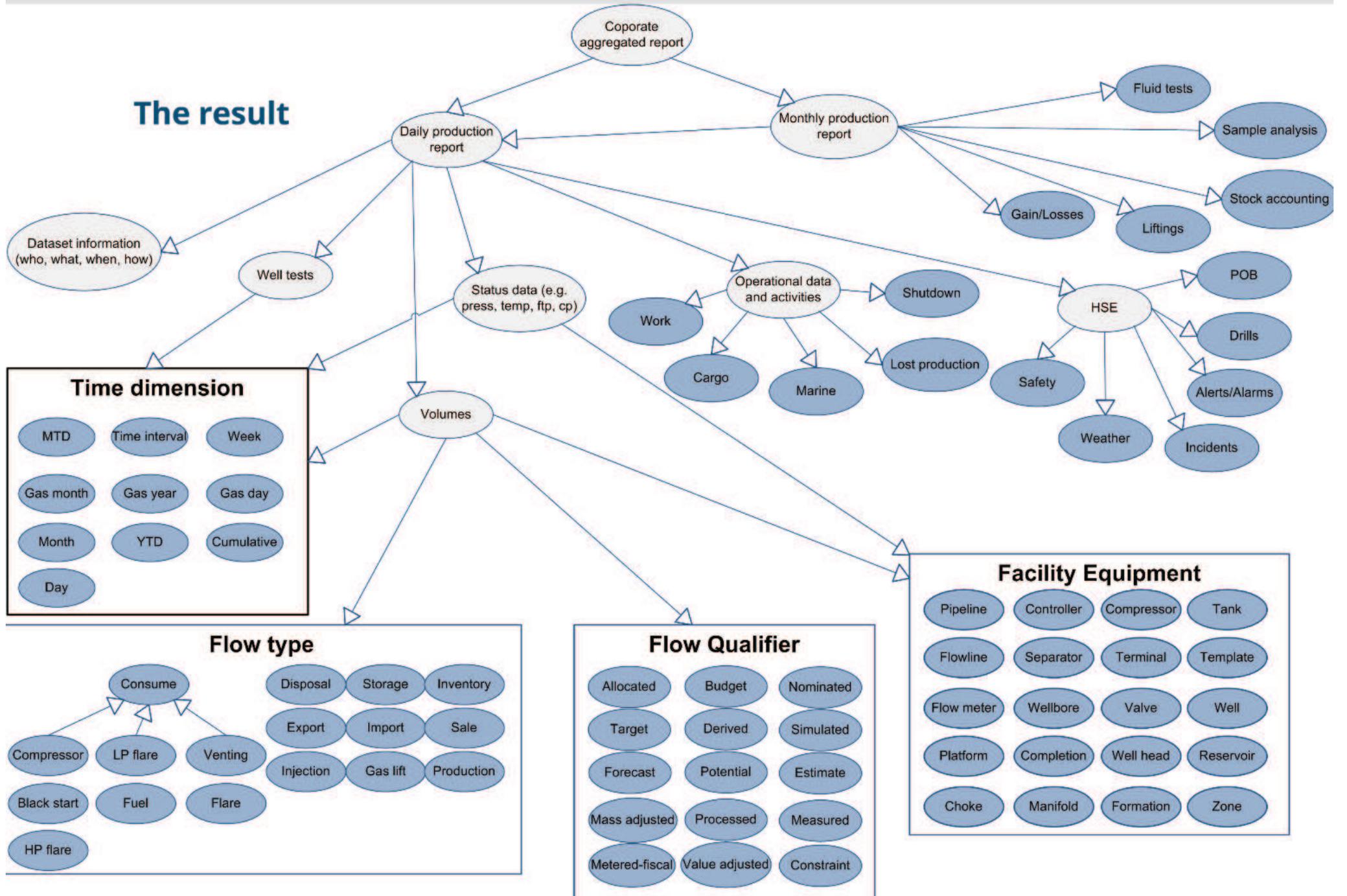
Metered-fiscal

Value adjusted

Constraint

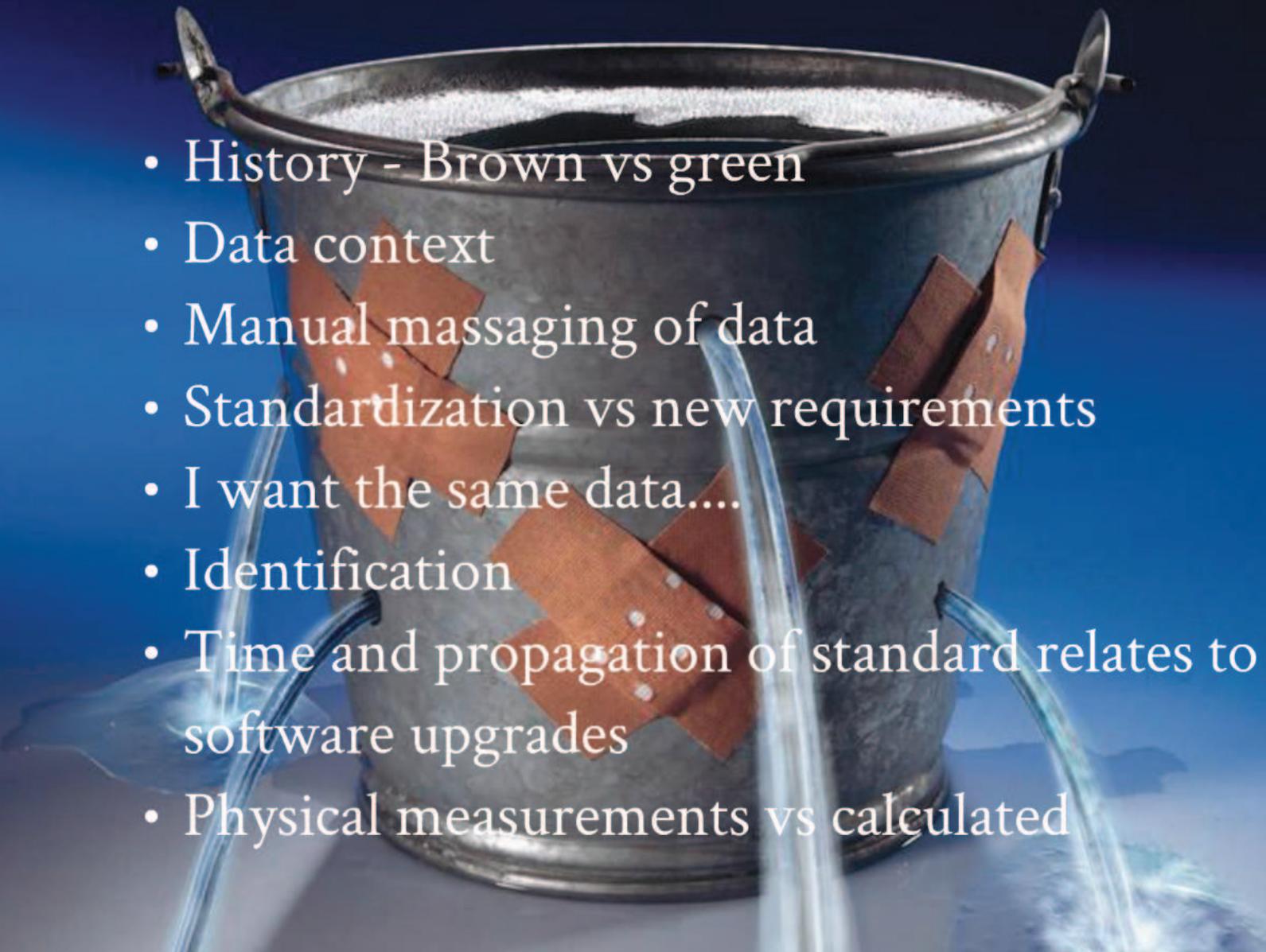


The result



Battletest

Battletest -> Challenges

- History - Brown vs green
 - Data context
 - Manual massaging of data
 - Standardization vs new requirements
 - I want the same data....
 - Identification
 - Time and propagation of standard relates to software upgrades
 - Physical measurements vs calculated
- 

Benefits

Benefits



- Automation - Integration
- Quality of data
- Timely distribution
- Tracking and control -> drop manual massaging of data
- Free up resources -> Quality people on quality work
- Follow-up -> early detection

