

ENGIE E&P Norge AS – About us

Established in Norway in 2001- part of the ENGIE Group

Operator of the Gjøa field

Among the top ten producers and reserve owners on the NCS

Number of employees: 284

Head Office in Sandnes and Base and Logistics Office in Florø

Turnover of 11 890 MNOK in 2015

Holds 40% of the ENGIE Group's proven and probable reserves and 58% of its production





The piping inspection challenge





Documentation

Inspection out in the field

Documentation at the office desk



The piping inspection challenge

Approx. 2.000 S316-pipes (~23 km)

20% inspecting 80% documenting

Quality of inspection data

Capacity - Inspected only high/medium critical pipes

Planning of inspection and re-inspections

How can we do inspections cheaper AND safer?

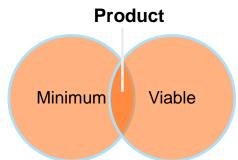




From idea to business case

- Customer challenge
 - Link photos to equipment
 - Domain knowledge
 - Connect photos to inspection events
- Prototype developed
 - Prove ability
 - Challenge understood!

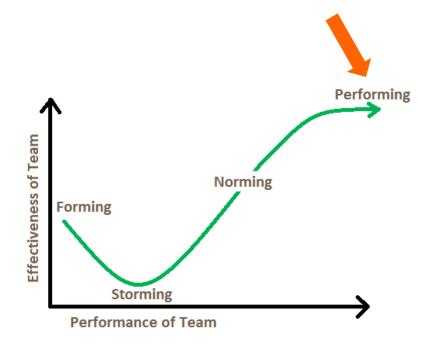




- Deliver complete pipe inspection solution in 16 weeks
 - On budget, schedule & agreed scope

Key success factors

- Well established delivery model
 - Incremental iterative process
 - Ongoing dialogue
- Well established development team
 - Proven track record
 - Tuckman's Development Model
 - Performing stage Productive
- Oracle Application Express (APEX)
 - Low cost of change
 - Short time to market
- Domain knowledge Inspection
 - Inspection solutions developed for other customers



Summary and most important

- Great collaboration
 - Cooperative and open dialogue
 - Collaborating and problem solving atmosphere
 - Focus on business value
 - Bi-weekly meetings





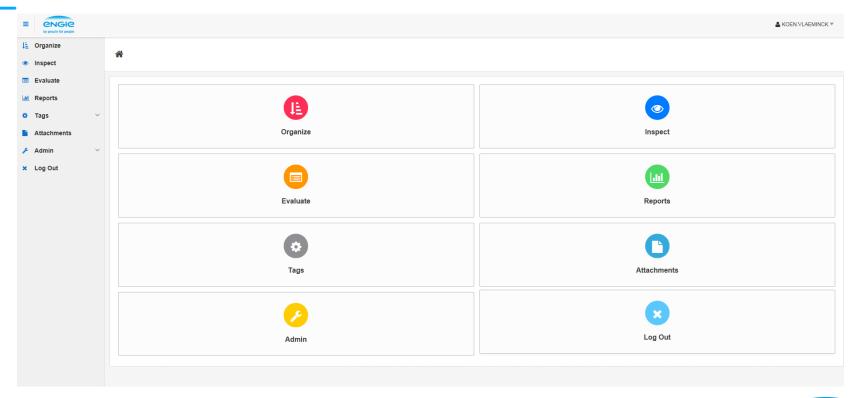
Idea! Prototype 2 weeks

Development 16 weeks

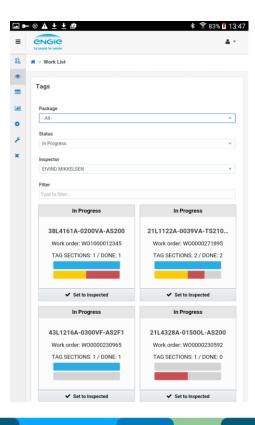
Production



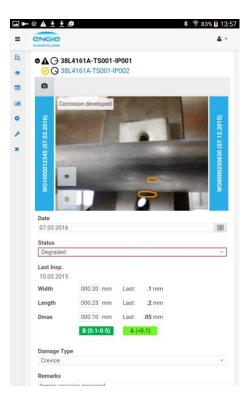




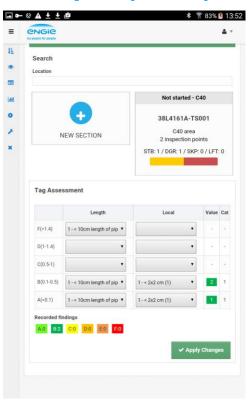














EMIS – It's the futureContribution to ENGIE's digitalization

80% on inspections and 20% documenting, double the amount of inspected TAG's

Data immediately available in database via mobile ATEX devices (Paperless)

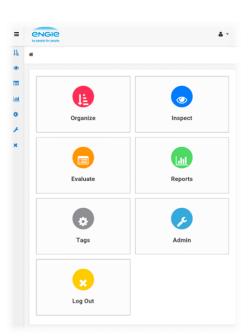
Trending and analysis reduce unnecessary pipe replacements

Inspection quality increases installation safety

Scalable and will in the future be extended to new inspection types

5 - 10 MNOK annual savings on pipe inspections

EMIS delivered on time and cost





EMIS – ENGIE Mobile Inspection Solution - Video

Link to video on Vimeo:

EMIS by ENGIE on Vimeo

