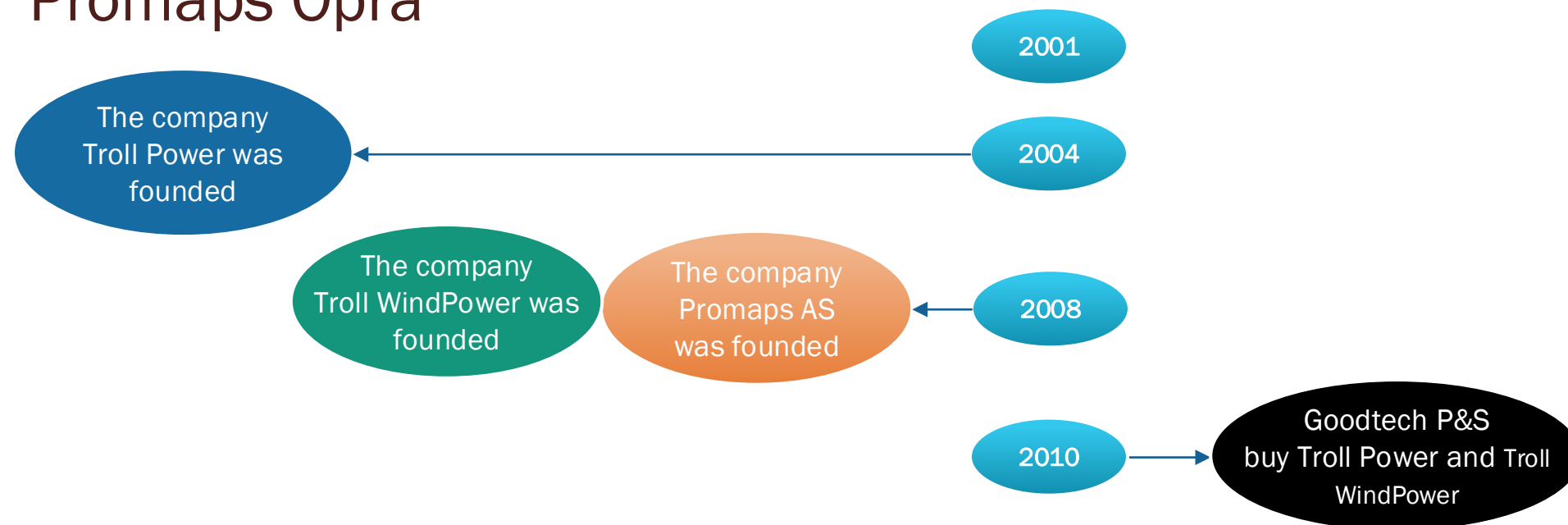


Development history Promaps Realtime & Promaps Opra



Promaps analysis projects

2006: Lutelandet - Gjøa platform, SFE
 2007: TFD, electrific. of Troll A-Kollsnes. Statoil Hydro
 2008: TFD, alter. load point to Troll A Statoil Hydro
 2008: Electrification of Goliat FPSO – Hammerfest Eni
 2012: Risk management of Statnett PAS55, Statnett
 2013: Reliability analysis Steinsland transformer station, BKK Nett
 2014: Regularity analysis of Møre power system, Statnett

Promaps R&D projects

2005: Sogne-nettet, Statnett SF
 2005: East Icelandic 132 kV Power system Karahnjúkar, Landsnet,
 2006: West Icelandic 220 kV Power system, Landsnet, Iceland
 2007: North Icelandic 132 kV Power system, Landsnet, Iceland
 2007: West coast 300 kV Power system, Statnett SF
 2008: Optimal risk based substation design, National Grid, UK
 2009: Optimal risk based substation design, Landsnet, Iceland
 2009: Pre project: Risk management of operation, R&D, Statnett
 2010: Risk management of operation, R&D, Statnett 1
 2011: Risk management of operation, R&D, Statnett 2
 2011: Risk analysis of flare system, Gassco 1
 2012: Risk management of operation, R&D, Statnett 3
 2012: Risk analysis of flare system, Gassco 2
 2013: Risk management of operation, R&D, Statnett 4
 2013: Risk M. of P.S. with real-time weather data, StormGeo, RFF
 2013: Risk analysis of flare system, Gassco 3
 2014: Online risk management with weather influence, StormG.RFF
 2014: Gasco OPRA phase 4_overpressure Risk Analyser
 2015: Online risk management with weather influence, StormG.RFF

2013

Promaps Online(Realtime) prototype is up and running in operation at Statnett Q4 2013

2014

Promaps Opra prototype Flare analyser is up and running at Gassco

2015

Commercial Promaps Online contract is signed with Hafslund

2016

Commercial Promaps Online contract is signed with landsnet

2017

Promaps Technology Is founded

2017

Release of Promaps Realtime (Online) in the market, Q2 -2017

Important moments in time

2001: A user need for new reliability methodology for protection and control units were defined Yngve Aabø, BKK Nett

2002: The Master thesis: Reliability analysis of protection and control equipment in transformer stations was initiated, NTNU, Arne Brufladt Svendsen

2002: Markov-Kronecker is solved by Tørris Digernes, Aker Elektro

2004: Method included in the textbook System Reliability Theory, M. Rausand, the textbook is used at universities all over the world (curriculum at MIT)

2009: R&D Manager Jan Ove Gjerde and Department manager at regional operational centre north, Stig Løvlund defined the SOW for real time risk management of power system, Statnett 2009-2013

Publications Promaps

2003 "Economic benefits by use of the maintenance methodology function analysis and probabilistic methods in the primary and secondary system in high voltage installations" Cired, Paris

2004: Analysis including reliability, income and cost for Power systems" PMAPS, Iowa

2007: "Analyses of delivery reliability in Power system", ESREL, Stavanger

2007: "Maintenance planning based on simulation of power deliver reliability and economic consequences." Doble, Tyskland

2009 "Power system regularity challenges connected to electrification of large scale offshore installations from land" ESREL, Praha

2009 «Reliability analysis including load flow and power demand in power system» AR2TS, Loughborough

2012: «Online reliability assessment of Power system», PMAPS, Istanbul

2014: «3D representation of geographical power system network as a function of regularity properties», ESREL, Wroclaw

2015: «Online Reliability Calculations of Power Systems with Forecasted and Real Time Weather Influence», ESREL, Zurich

2017: Modelling Weather Dependence in Online Reliability Assessment of Power Systems (JRR-16-0130), Journal of Risk and Reliability

2018: «Digitalization of the power business: How to make this work?» ESREL, Trondheim

Awards

2014: Nominated for the Norwegian Technology Award, Tekna

2014: Nominated for "Norway's smartest industrial enterprise in 2014" Promaps online, Norsk Industri/Siemens

2017: Nominated for "Norway's smartest industrial enterprise in 2017" Promaps Realtime, Norsk Industri/Siemens

2017: Nominated for the S.P.I.R award for Promaps Realtime, National price for climate technology and renewable energy