

# ORAP<sup>®</sup> Reliability Benchmarking Events, Age, Operations, Analytics

Frame 6B Users



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June 2017

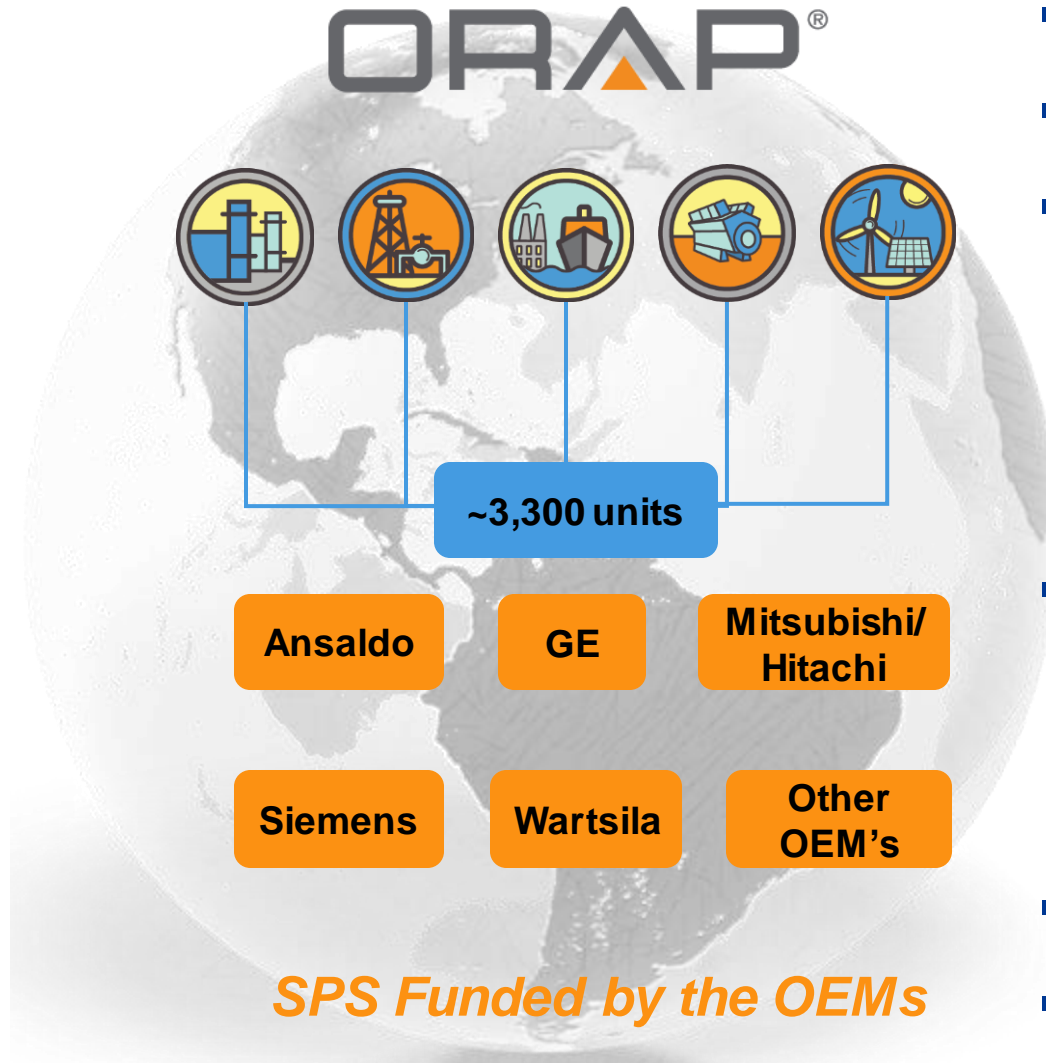
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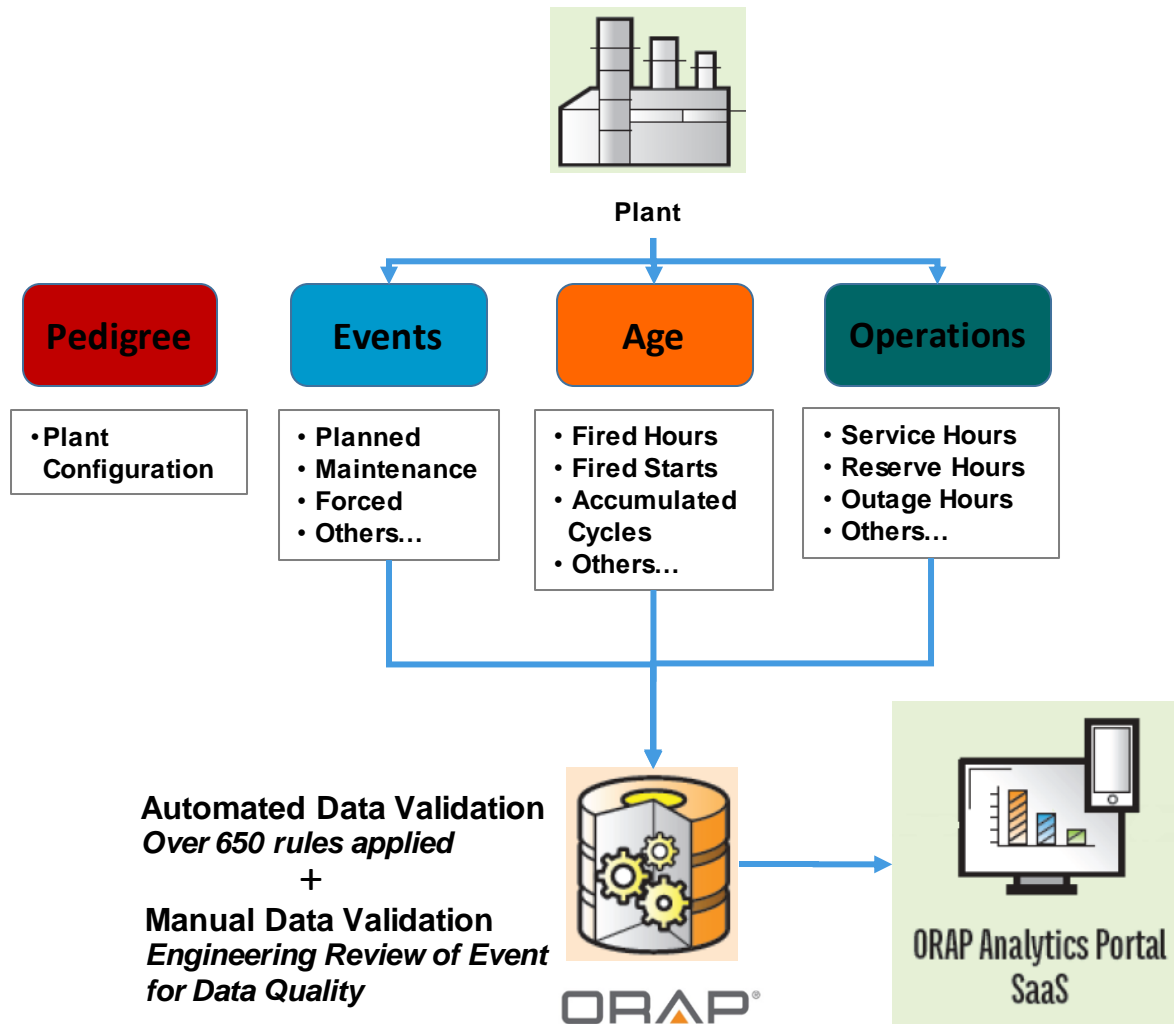


# ORAP – A GLOBAL SYSTEM



- Third-Party, Unbiased
- 30+ Years of Data
- RAM Data for Large-Scale Capital Equipment
  - Heavy Duty & Aero GT
  - Fossil ST
  - Reciprocating Engines
  - Renewables
- Technologies & Applications
  - Combined & Simple Cycle Plants
  - Power Generation & Mechanical Drive
  - Peaking to Continuous Duty
- IEEE Standard 762 Compliant
- Total Plant Focus (GTs, HRSG, Steam Turbine, Balance of Plant)

# ORAP PROCESS



## ORAP Benefits

- Standardization across your fleet
  - Data Input
  - RAM KPIs
- Benchmarking
  - RAM KPI's
  - Inspections
  - Events
- Summary of Outage duration and causes
- Fleet event details
- Communication with OEM
- NERC GADS

- Real time, on-demand
- Export to PDF, CSV
- Customizable Filters

# DATA SUBMITTAL OPTIONS

- Automatic Connection to an Existing OSIsoft PI System or Historian



- Entering Data Via Online Internet Portal



**ORAP<sup>®</sup> RAM**  
**Data Entry**

## Existing Plant Reports



- Submit Output You Already Have
  - Management Reports, etc.
  - May require additional feedback from plant

# ORAP – PROPRIETARY DATA

- All Data is Owned by Submitting Owner/Operator
- Company Specific Data Not Released without Written Authorization
- SPS – Shared Ownership for Fleet Reporting
- Sponsoring OEM – Shared Ownership for Internal Use
- Non-Disclosure Agreement
  - General agreement applies to all ORAP participants
  - OEM agreements in place
  - Customized agreements – as required





QUESTIONS?

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