



# Digital Transformation for Environmental Health and Safety

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# Agenda

- About Prometheus Group
- EHS 411 – Current state, Trends and Solution Expectations
- Incident Management & Management of Change
- Permitting and Isolations/LOTO
- Digital Enhancement
- Mobility
- “Perfect World”



# Prometheus Group

- Founded in 1998
- Headquartered in Raleigh, NC, USA
- Asset Management Experts
- Integrated and Intuitive Software
- Trusted by the largest asset-intensive companies in the world



TOP 6

Oil & Gas



TOP 6

Chemical



TOP 6

Pulp & Paper



TOP 6

Mining & Metals



TOP 6

Utilities



# Prometheus Platform



# Current State, Trends, and Solution Expectations

- Regulations & deregulations
  - Regional requirements make the “one size fits all”... no longer fit
- North American workplace fatalities are up
- EHS 4.0? 5.0? X.0??



# Incident Management & Management of Change

- Incident Management
  - Accurate timelines are impossible when we rely on humans
  - Simply making a *digital* Incident report doesn't save time or improve safety
- MoC
  - Effective change is inconsistent when we rely on humans
  - 80% of large scale incidents can be traced back to failures in MoC
  - For every 1000 work orders, around 50-100 require MoC



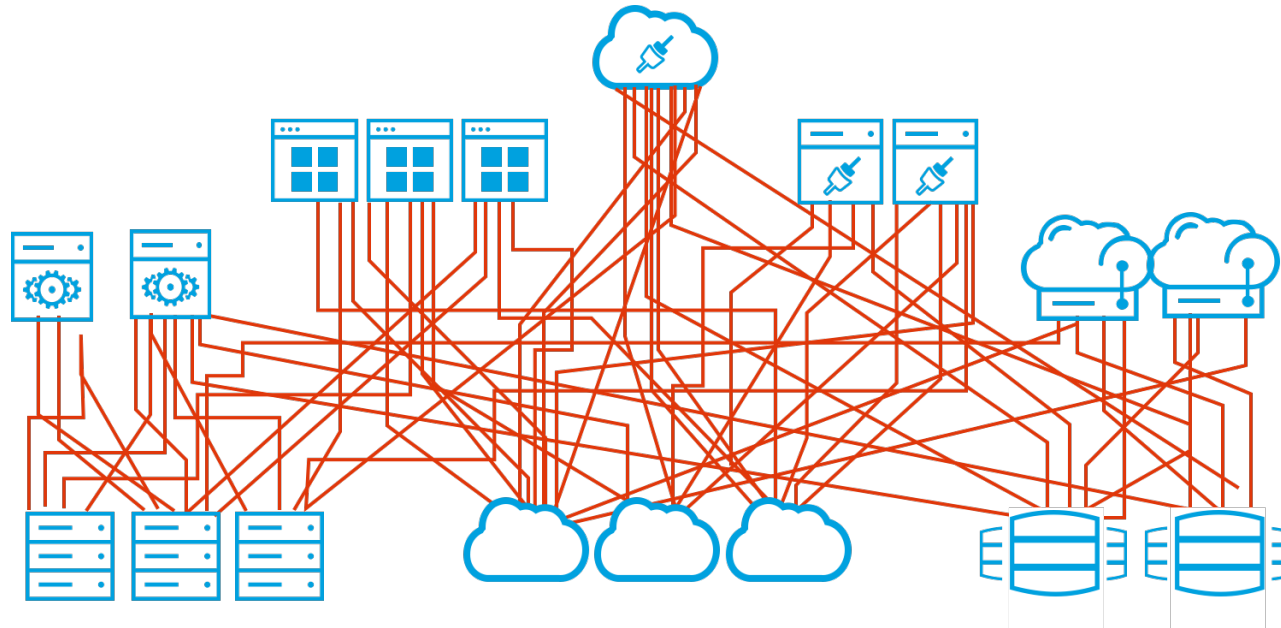
# Permitting and Isolations

- Smart Forms or Smart Systems?
  - One tells you what you did wrong, the other tells you what you *should* do
- Are you trying to save lives, save time or save trees?
- Hard and Soft controls
- Are you ready for the culture change?



# Digital Enhancement

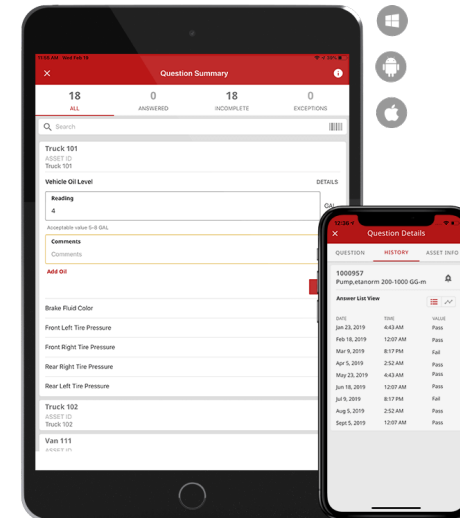
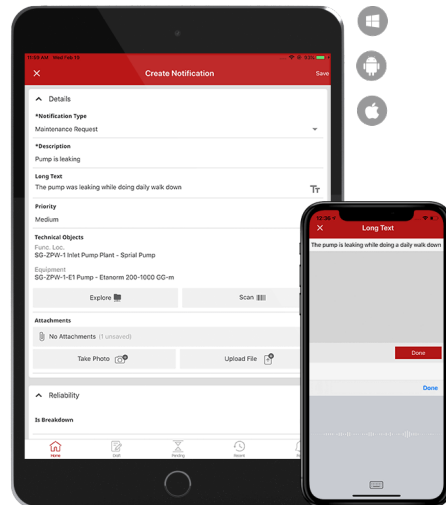
- Value add vs “cool”
  - P&ID Markup
  - Barrier management
  - 3D plant diagrams
- Integration vs Interoperability



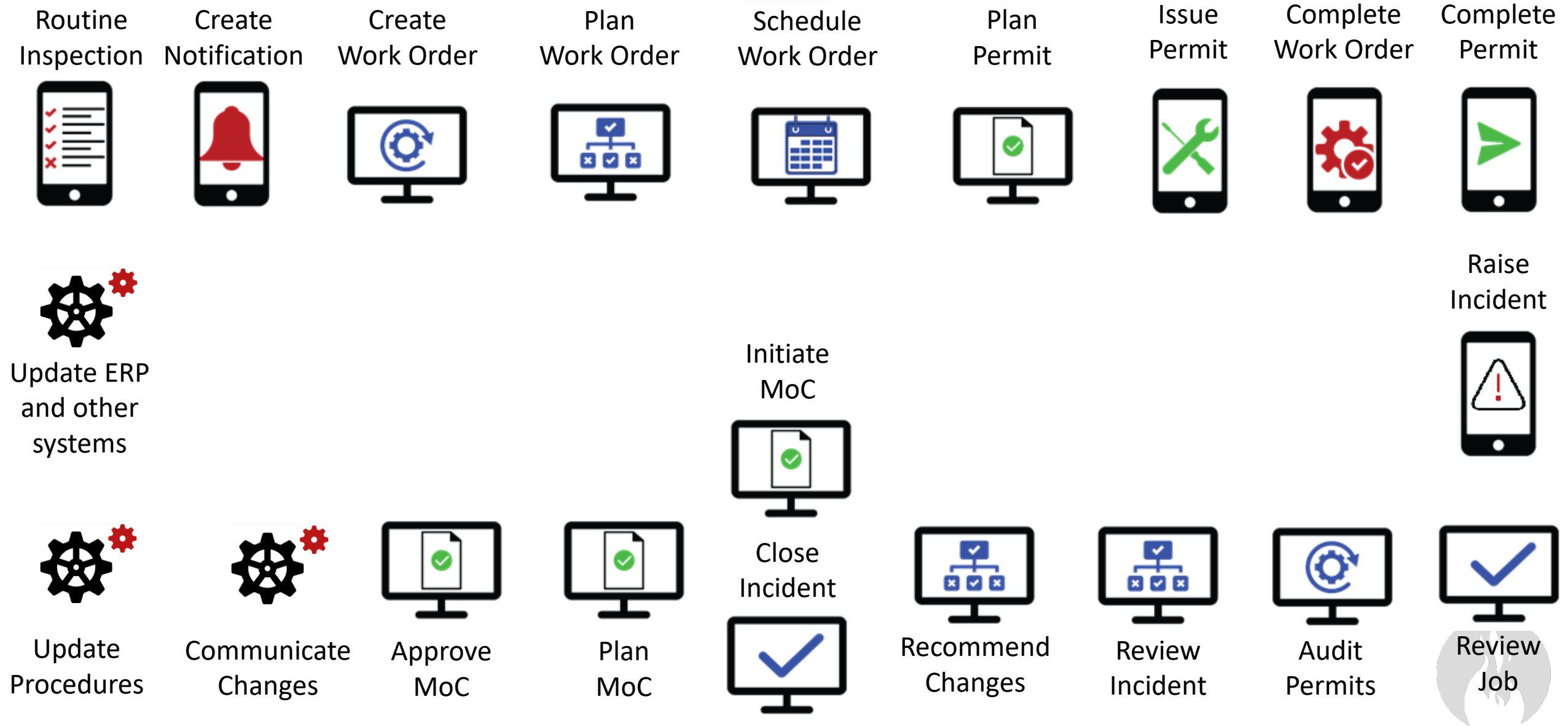


# Mobility

- Build it for chimpanzees
  - The interface needs to be intuitive
  - Humans forget details very quickly, immediate collection of information is paramount
- Best of breed vs “Jack of all trades”
- Online and Offline



# Circle of Life





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