

AVEVA PI WORLD

Eastman's digital transformation: From Engineering to Operations & Maintenance

Presented By: Keith Parker

AVEVA

Eastman: A global industry leader

- Fortune 500 specialty materials company with 2020 revenue of ~\$8.5B
- Global manufacturer and marketer of advanced materials and specialty additives
- Operates four business segments
- Global team of ~14,500
- Serving customers in >100 countries



A legacy of **innovation** and **growth**

A LEGACY THAT BEGAN MORE THAN A CENTURY AGO

“Throughout our history, Eastman men and women have focused their sense of purpose, innovative spirit and drive for excellence to enhance the quality of life in a material way.”

– Mark Costa
Board Chair and Chief Executive Officer



EASTMAN

Sustainable innovation driven by the world's greatest challenges



MITIGATING CLIMATE CHANGE



SUSTAINABILITY DRIVERS

- Operational footprint
- Energy savings
- Reduced material usage
- Durability
- Prolonged use

EASTMAN INNOVATION EXAMPLES

SAFLEX®
polyvinyl butyral

LLUMAR®
window and paint protection film

Eastman **IMPERA™**
performance resins



MAINSTREAMING CIRCULARITY



- Recycled content
- Renewable raw materials
- Bio-degradation
- Compostability
- Recyclability

Eastman **TRITAN™**
copolyester



Eastman **RENEW**
specialty plastics and textiles



CARING FOR SOCIETY



- High performance
- Product safety
- Global legislation & regulations

Eastman **TETRASHIELD™**
protective resin systems

BANGUARD™ 42 SC

ACE
architectural coatings

*How do we find accurate
information immediately
and integrate it across the
lifecycle of an asset*



Document-centric Processes



Project Team
Vision



Asset Information
Transfer

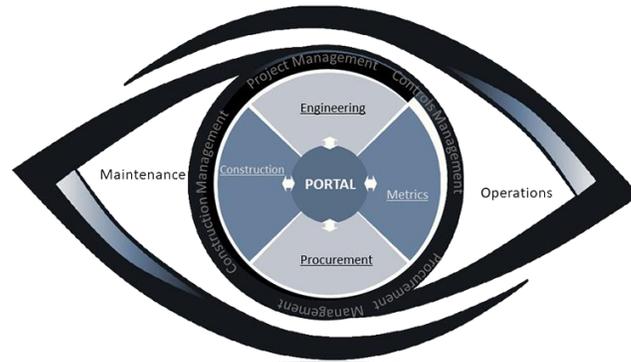


Manufacturing
Output

Seamless Data-Centric Processes Across the Life Cycle



Project Team
Vision



Engineering Concept → SEIGA → Manufacturing Assets



Information Transfer



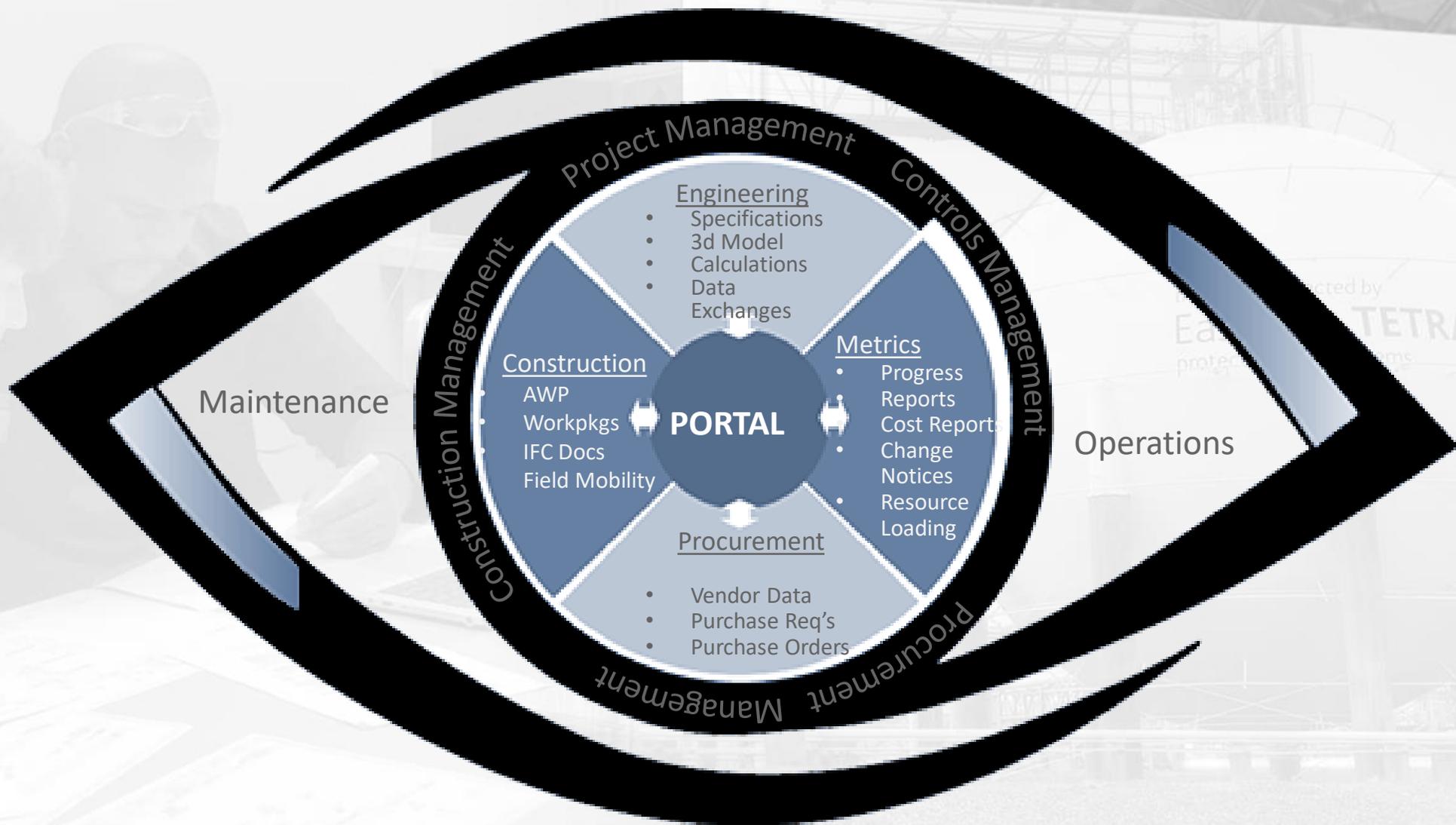
Manufacturing
Output



SEIGA

**Seamless EPCOM
Integrated Global
Access**

Instant single point access to integrated,
accurate, reliable, secure data and
automated workflow processes



Engineering
Concept



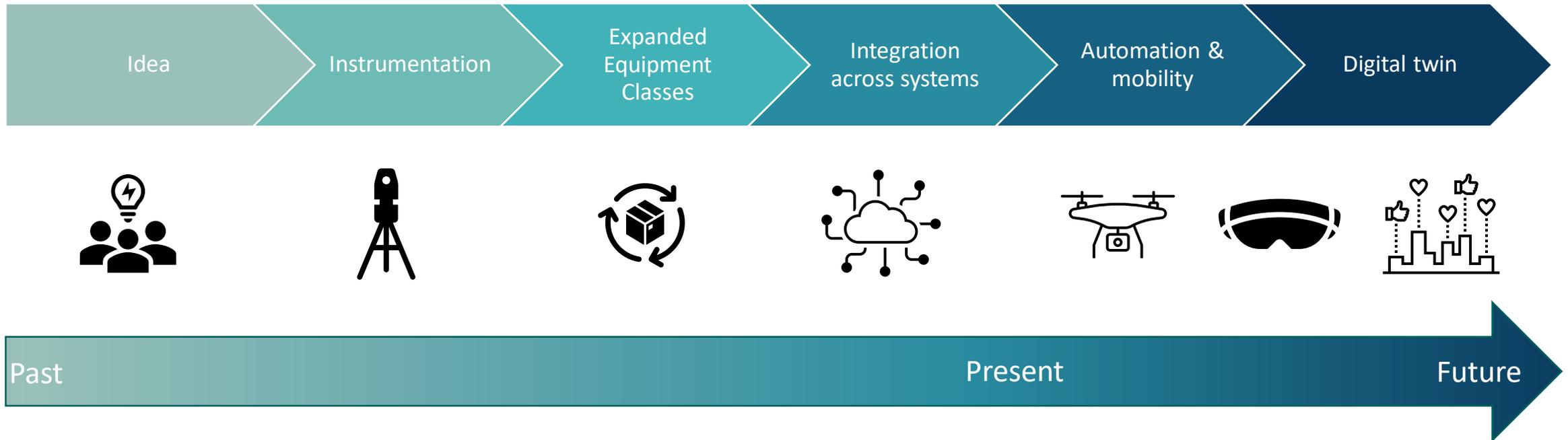
SEIGA



Manufacturing
Assets

EASTMAN

Our journey

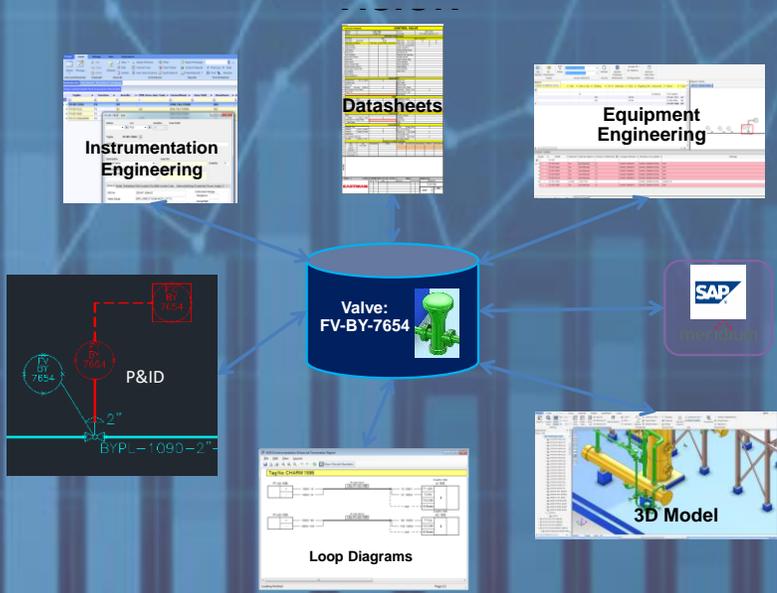


Value & Benefit

-  Accuracy of information
-  Speed of deployment
-  Reduce time spend searching and validating
-  Drives standardization of processes
-  Manage data throughout lifecycle
-  Centrally supported from provisioning to enhancements

Benchmark savings 30% reduction of engineering design

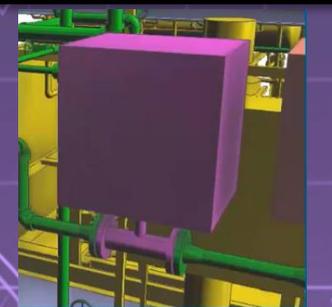
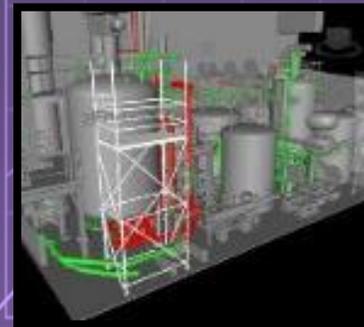
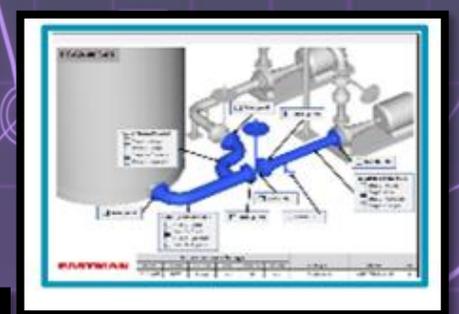
Engineering



Procurement



Construction

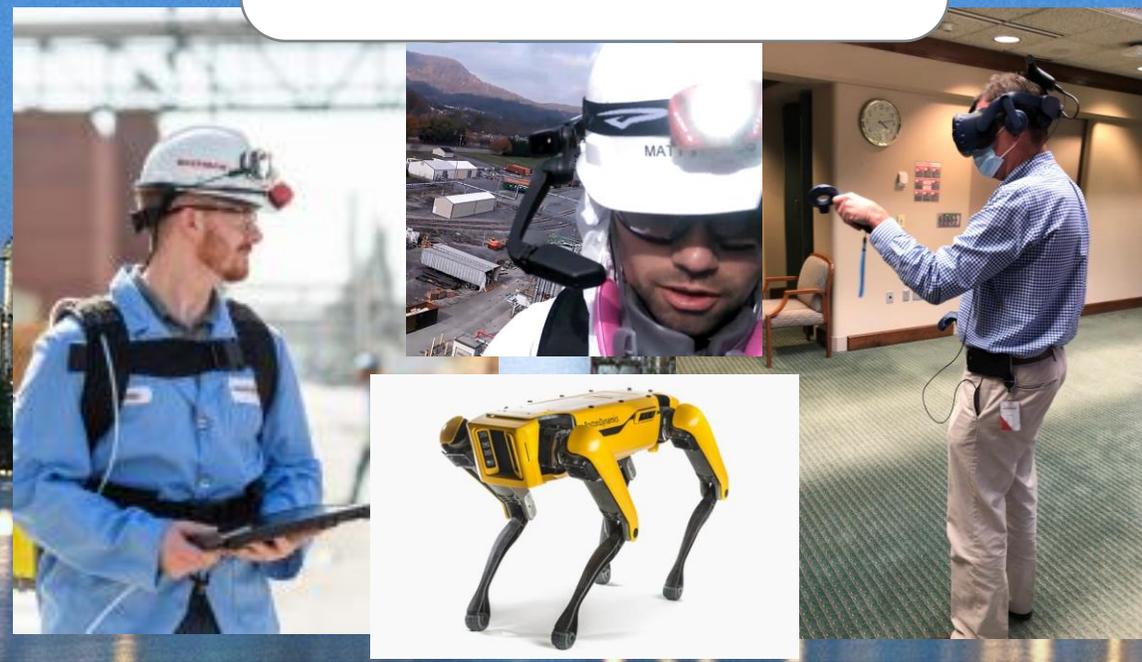


Operations and Maintenance

Digital Twin



Mobility, VR, AR, & Robotics

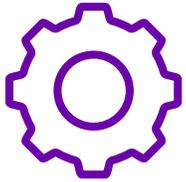


SPOT image courtesy of Boston Dynamics, [bonstondynamics.com/spot](https://www.bonstondynamics.com/spot), 2021



**A shared vision
to build a more
sustainable future**

Eastman's E&C Digital Transformation Journey



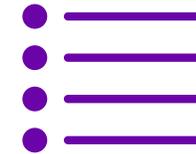
Challenge

- How does Eastman make the transformation from document centric to data centric and leverage that transformation across the lifecycle and operation of its assets?



Solution

- Developed a digital transformation program focused on a single point of truth via internally developed and commercially available applications and integrations including AVEVA solutions



Benefits

- Improvements in overall time to design by making information available, accurate, automated and reliable, and systematically sharing it across systems

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