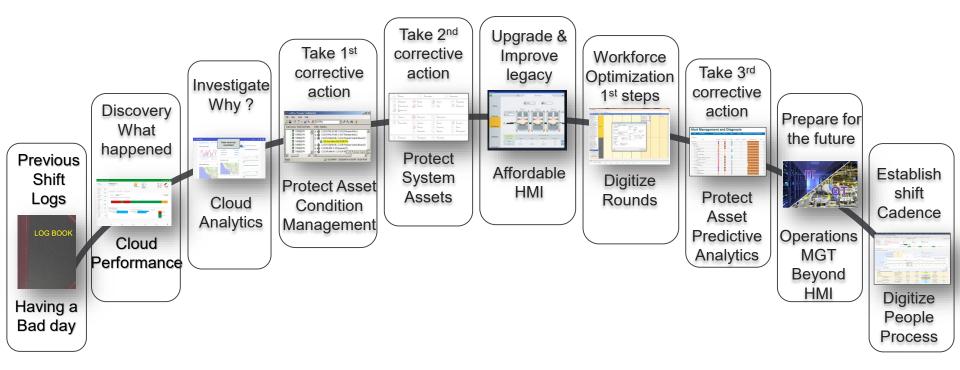
Our journey today – the cadence of the shift Steps toward being more Digitized



Areas we see a lot of movement in today

- Artificia (rteligence (AI)
- Augmented Reality (AR)
- Machine learning
- Adaptive Manufacturing
- Advanced Robotics
- Big Data Analytics
- □ Smart Everything

Sensors, Cities, Equipment, Trucks

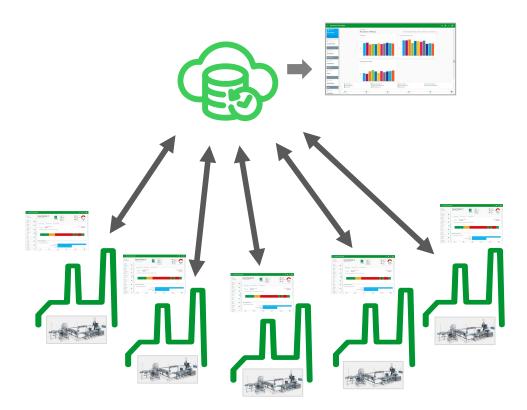
- Condition monitoring
- Proactive and predictive maintenance
- Track and trace
 - IT and OT convergence 🗸
- Product design
- Prototy ring and development
- 3D printing
- Workforce Optimization
 - eLogging, Rounds digitization, Paper on Glass

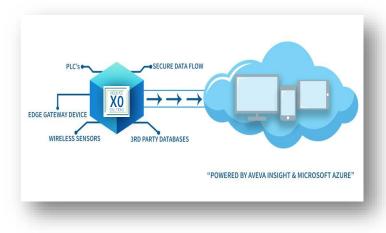
5 Ways to optimize Assets / Process (APM)



Source: ASM Consortium. Cited by: ARC "Why we need a better approach to procedural automation" Larry O'Brien, September 2010

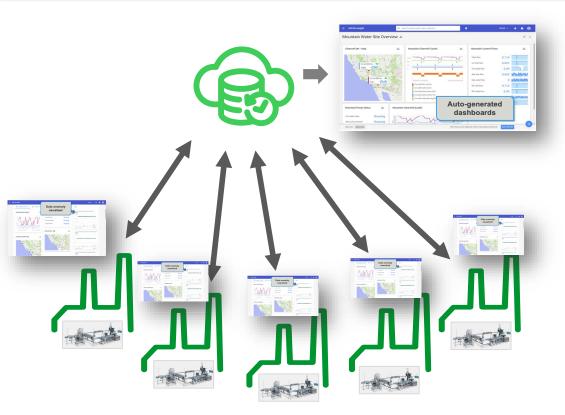
Optimize Assets performance – Insight Performance – X0

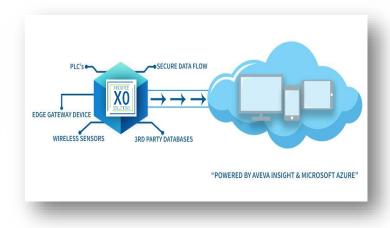




- Quick install, quick time to value
- Low / No capital required
- Remote monitoring
- Adoption services
- Connects to existing controls or add shadow sensors

Optimize Assets & Process performance – Insight History – X0

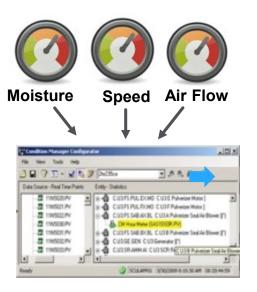




- Quick install, quick time to value
- Low / No capital required
- Remote monitoring
- Adoption services
- Connects to existing controls or add shadow sensors

Optimize Assets performance - Wonderware Condition manager

...when you know the rules







Corrective Maintenance



Logic

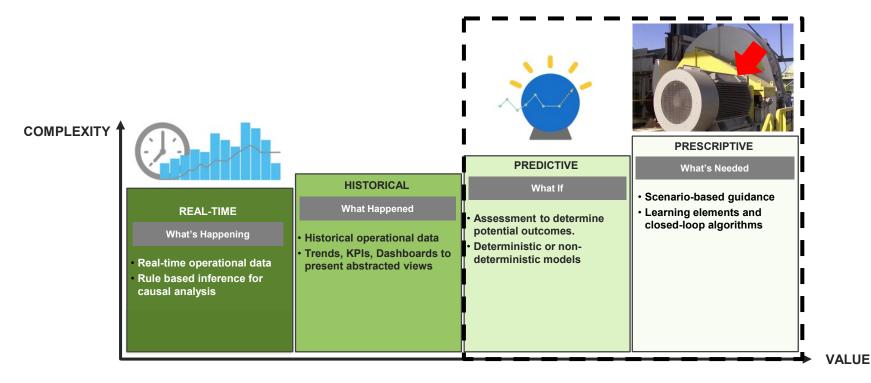
Cloud

Digitizing Work with Wonderware Mobile

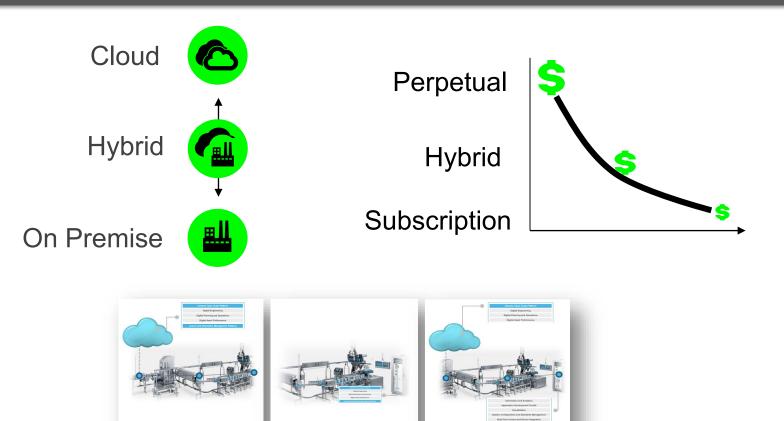
Through Operator, Maintenance, and Safety Rounds Disciplined Execution - Provides Enforcement, Accountability, Auditing



Analytic capabilities that could change the game



Lower TCO....Technical & commercial flexibility



2) Hybrid

Some on-premise controls and sources

Hybrid

and some Cloud connected (mixed mode).

premise. (traditional approach)

All controls and software are fully on-

3) On-Premise

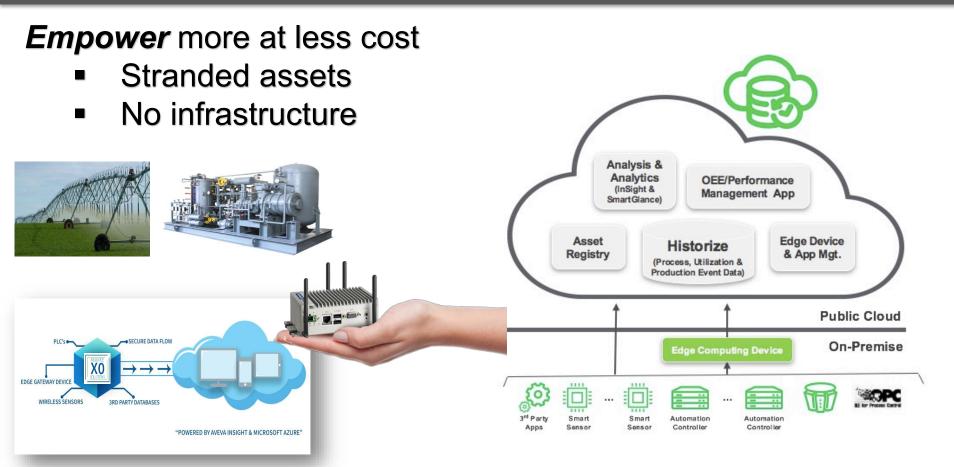
1) Full Cloud

IIoT devices are direct-connected to and

operated from the Cloud (any modules).

Full Cloud

Technology drivers - Internet of Things (IoT)



Internet of Things (IoT)

Extend without compromising legacy systems

Shadow sensing





Internet of Things (IoT)

Scale virtually limitlessly on the cloud



InTouch Edge HMI – lower cost





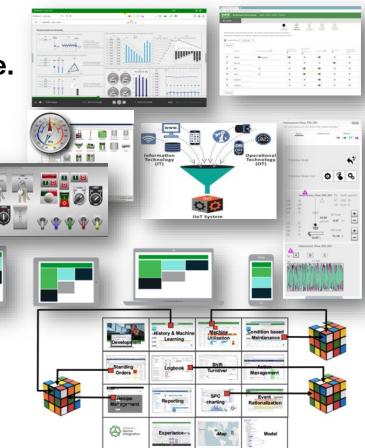
Local machine visibility & control

- Rich, full featured capabilities
- Lower price point
- Import legacy PanelView & FactoryTalk[™]
- Connect to enterprise (no silo's)

Native Mobile Apps for iOS (Apple Store) and Android (Google

UNLIMITED Tags UNLIMITED Thin Clients DEV+RT All features included Simplex or Redundant

- A Platform where OT & IT coexist is becoming an imperative in order to Digitize.
 - Responsive, Role-based visualization
 - Efficiency tools
 - IoT built in
 - Plug & Play Apps
 - Contextual data
 - Agile design
 - Standards framework
 - Collaborative Cloud development

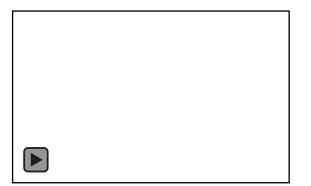


DIGITIZING WORK, Workforce Optimization



Source: ASM Consortium. Cited by: ARC "Why we need a better approach to procedural automation" Larry O'Brien, September 2010

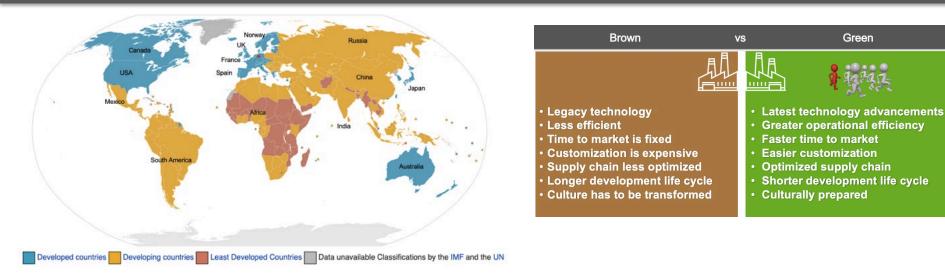
Procedure Automation – J5 International





Copyright InSource Solutions @2019

The why - "be Relevant"



Staying Relevant is.... Never a conditional statement of IF And never a question of WHEN It is always the imperative of NOW

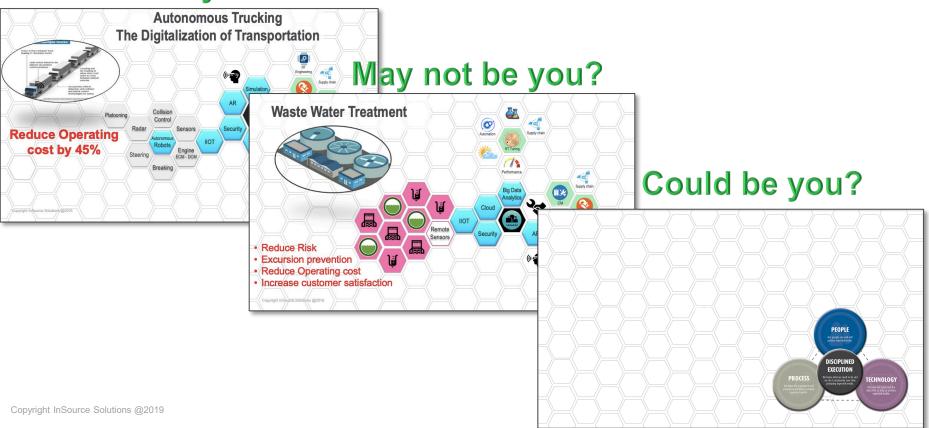


How InSource helps

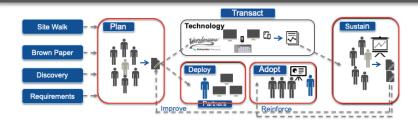
Copyright InSource Solutions @2019

Discover what makes sense for your site

Not you



How we help





Requirements definition



Process mapping



Lean practices



Adoption coaching

Owners Agent services



Upgrade assistance



Technical assessment



Systems Health Check



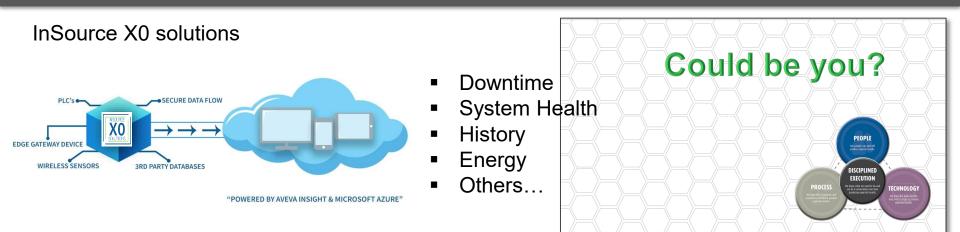
Classroom & virtual Training



Technology strategy mapping



How we help



Digital Transformation — The Complex Made Easy



A Leapfrog in Value

Downtime Solution	1 Line Pilot	5 Lines	15 Lines
Traditional Project Cost	\$ 65,000	\$ 125,000	\$200,000
Time to Deploy	4-6 weeks	6-10 weeks	12-16 weeks
X0 Solution Annual Cost (subscription based)	\$10,000	\$15,000	\$33,000
Time to Deploy	48 hours	48 hours	48 hours

Minimal Infrastructure Cost7 Subscription Based Flexible

InSource Learning Lab











Working to influence the next generation.....



Tech School, Local College & Manufacturers







ChSource Outreach Program

Revitalize manufacturing in America through education, advocacy, outreach & assistance. We seek to revive interest, remove misconceptions, provide assist

We solve to revive interest, remove mackinicapoons, provide assistance and help others see the value of manufactuing through values program and events in order to have more youth seek manufacturing careers. We will focus our efforts the majority of our efforts on youth in Middle and High School.

rce desires to be more visible.

Source Solutions is focused on revitalizing manufacturing in America. a are a 100% ESOP company, and our pride and ownership show in we do. It is an honor to serve and build great value alongside our ents, employees, partners and communities.

We help make manufacturers more productive & profitable. We provide scalable solutions that integrate technology with management systems and continuous improvement tools to ensure our clients achieve and then sustain success.

We recognize that today's youth are tomorrows manufacturers and taders. By educating and inspiring young people about manufacturing ind technology, we can help open their minds to greater opportunities or them and our country.

To achieve this, our Outreach program is focused on helping our youth community by partnering with schools and other like-mixede organizations that promote programs such as STEM education, robotic competitions, and challenge events that foster personal growth, team building, and ordersional development for our wouth.



Manufacturers





Opening Doors and Minds

#MFGDAY17



Contact: Aaron Evans – 804-378-7500

Copyright InSource Solutions @2019

Thank you

Industry 4.0

Driving Operational Results Through Digitization