

Relianeering AB is a technological consultancy company, built on years of experience with innovative development and problem solving.

Our Values

- N Networking. We consider the Networking as indicator of the company's ability to build a true relationships between our customers, partners and employees. For us the Networking is the source of trust and brings information about true needs. The information from the Network is the main driver for developing our new solutions.
- **E** Efficiency. The key of success is to be efficient, get the maximum from efforts given to solve a problem. Be electric motor not a gasoline combustion engine.
- W Work. Work in a smart way and get fun, instead working hard only for financial figures.













WHO WE ARE

Relianeering AB is the Innovative Knowledge Company.

- We are the next generation of engineering company simplifying the complexity.
- Our target is to deliver smart solutions and bring value to our customers.
- With years of experience from a complex world of RELIAbility and engiNEERING, Relianeering is a technological consultancy company combining the gained experience and knowledge with the new mindset of next generation engineering.
- We offer you inspection services, engineering solutions, monitoring services and maintenance products based on the latest technology and mobile solutions.
- With our totally new monitoring device SES Logger connected to Hash Mobile Inspector we increase the mobility of data collection further and maintenance engineering becomes on-the-go.
- Our promise is to provide our customers with the best possible solution.
 Simple, Easy and Smart.

































Setting excellence standards



Global delivery standards

Defined excellent Gathered & standardized Services knowledge









Documented & shared



Replicated

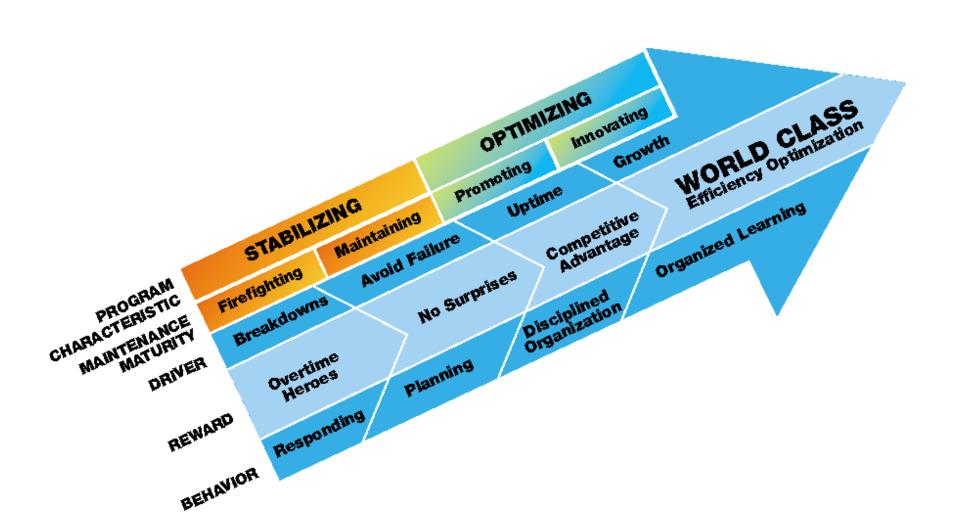




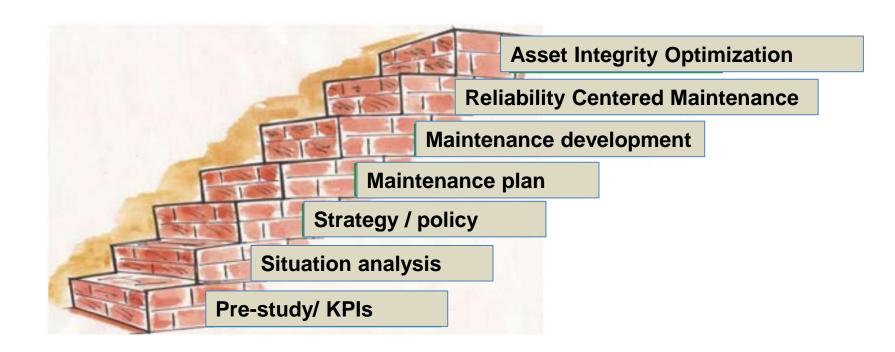




Maintenance maturity



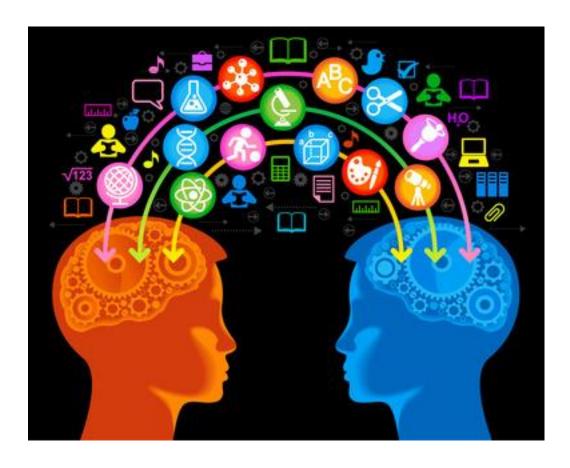








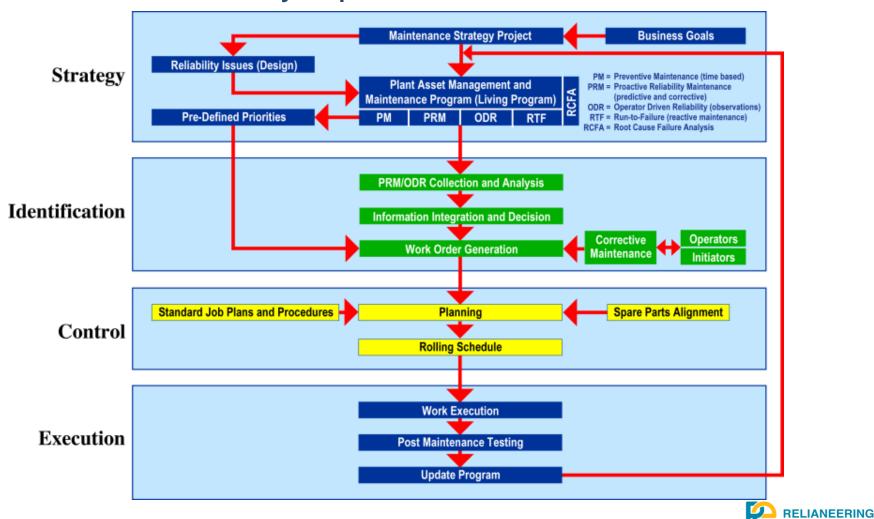
Knowledge Management





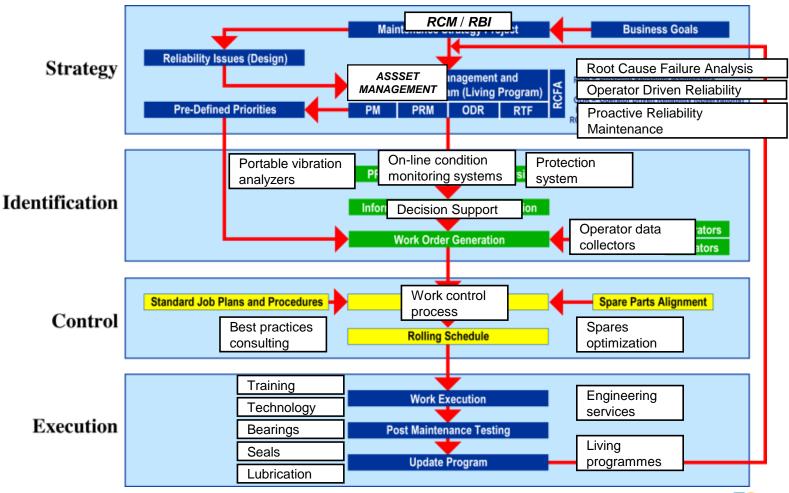


Asset Efficiency Optimization





Asset Efficiency Optimization





Optimize

Execute

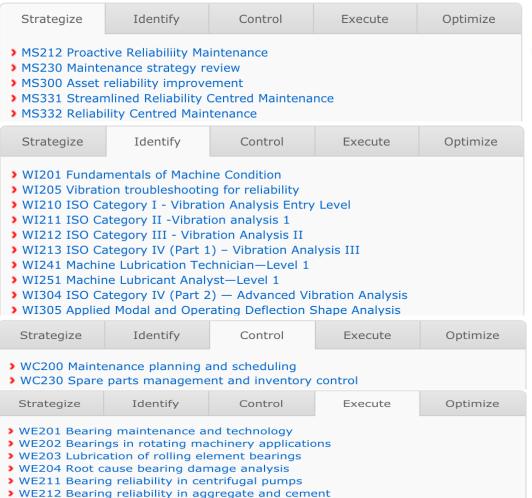


Classroom training courses listed by AEO Facet

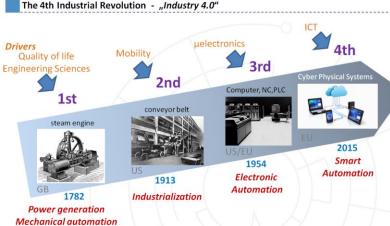
Strategize

Identify

LP200 Root cause failure analysisOEM301 Bearing System Design



Control









Integrated Operations - Look at the total picture **People** Business Attitude and behaviour towards IO Communication – onshore/offshore/disciplines Knowledge management People **Business** Clear defined Business KPI's ROI **Process Optimised Production** Integrate work processes Clear defined CBM KPI's **Enhance Roles and Responsibility** PM review - get rid of unnecessary PMs **Technology Technology Feasibility** Common Historian Interaction between Common Web Based Reporting Tool Online and Wireless Tools where possible Integrate Software

"The right people, doing the right thing at the right time, every time"

Integrated Logistics





Industrial 4.0

Mobile apps and instruments



Embedded sensorization



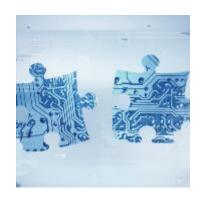
Wireless communication



Cloud Computing



Integration and interfacing



Advanced analytics





Mobile app solutions

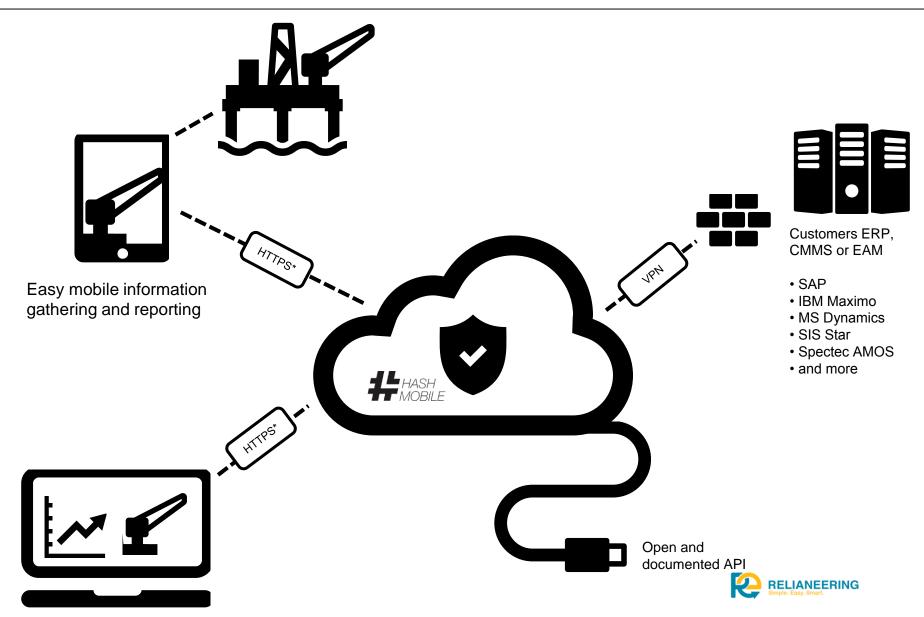
Industry and cross-functional/ -application knowledge Advanced analytical knowledge

- Data Collection
- Process Visualization
- Sales and marketing
- Documented Solutions

- Technology (e.g. Condition monitoring, Alignment, ...)
- Engineering & simulation apps
- System integration
- •

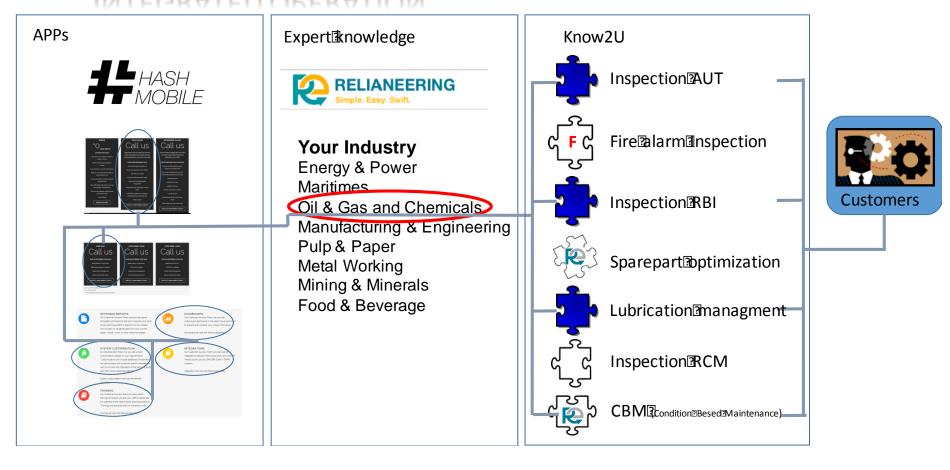








INTEGRATED®PERATION





MONITORING & INSPECTION











Effective plant performance is about driving efficiency in...

Staff & Skills

- Operate the line
- Maintain the line
- Turnover
- Shifts

Operations

- Utilization & capacity
- Product changes
- Production stops
- Product filling (overfill)
- Breakdowns (MTBF)
- Time to restart after stop (MTTR)

Products

- · No SKU
- Marketing
- Branding
- Sales



- Product
- Paper Utilities
- Time

Logistics

- Plant layout
- · Line set-up
- Spare parts handling
- Utilities handling

Processes

- Production planning
- · Spare part ordering
- CIP requirements
- Maintenance



Consequences of non-performance:

- Lower production
- · Product quality issues
- Losses/waste
- \$\$\$







To maximize profitability, Tetra Pak focuses on two industrial standard measures

Operational cost



Maintenance cost **Running cost** Waste cost **Direct capital cost**

Overall Equipment Effectiveness (OEE)



Availability

Produce when I want

Performance

· Produce according to plan

Quality

 Produce with good output (not wasted)





Reliability centered maintenance



Spare parts



Skilled service staff





Maintenance Services

Proactively securing operational performance



On-site consulting
Asset Care
Performance Guarantee
Operational Cost Guarantee





Maintenance Services

Proactively securing equipment performance

Reliability centered maintenance



Skilled service staff



Service contracts



Reliability-centered maintenance

 Basis for unique maintenance plans with the right combination of predetermined, condition-based and corrective maintenance

Maintenance history

 The only OEM in industry having a centrally controlled, globally integrated Enterprise Asset Mgmt

Continuous improvement

 ~30 000 assets in >170 countries provide input to recommendations updated every 2 weeks

Skilled and experienced staff

- Certified engineers trained in TPMS and advanced troubleshooting
- Apply best industry practice tools, technology & methods

Global reach

- 1600 service engineers and 150 system specialists globally
- Local presence in ~40 market companies
- ~40,000 maintenance events performed annually by Tetra Pak at customer sites

Drive operational efficiency

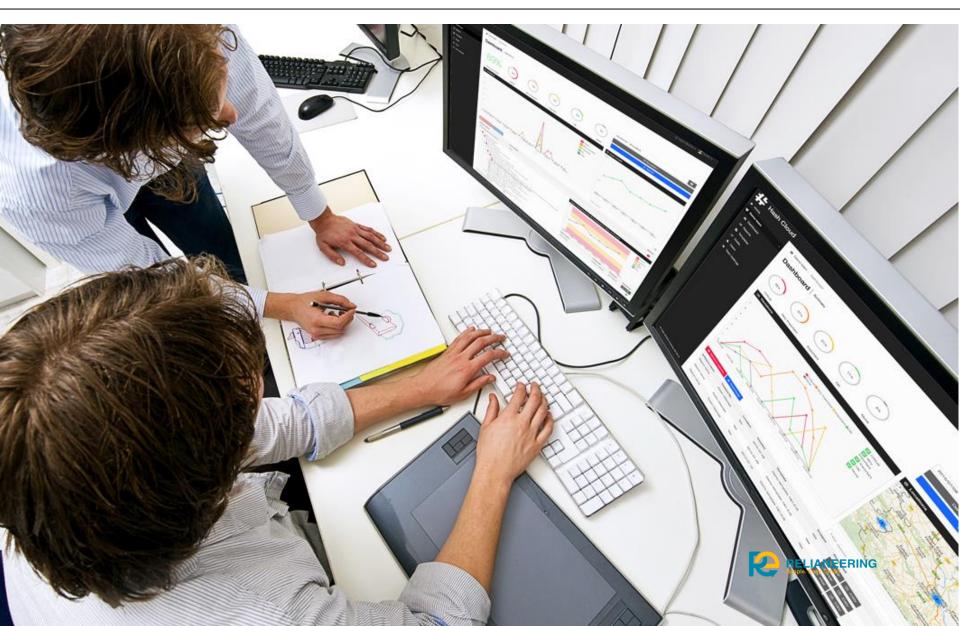
- · We jointly identify improvement areas
- Focus on factors that will reduce operational cost and increase OEE
- Foundation is in increased quality of maintenance and quality of operations

Different levels of commitment

- · Cost predictability and fixed price
- Guarantee on line performance (PTU)
- Guarantee on operational cost

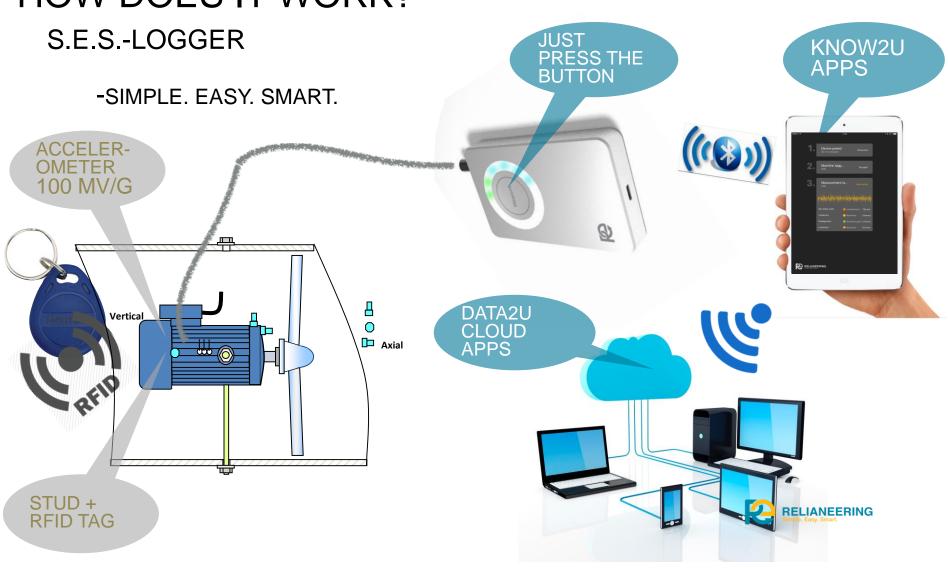






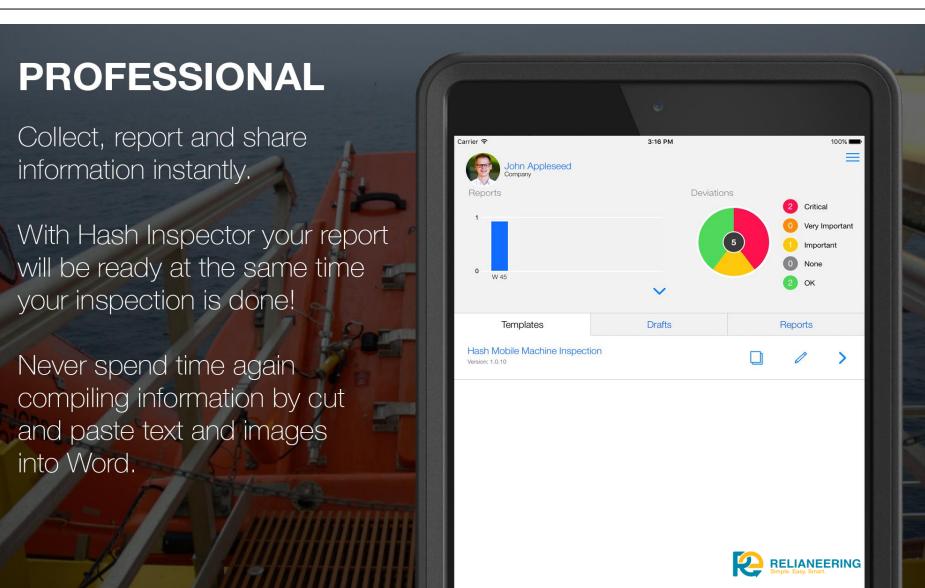


HOW DOES IT WORK?

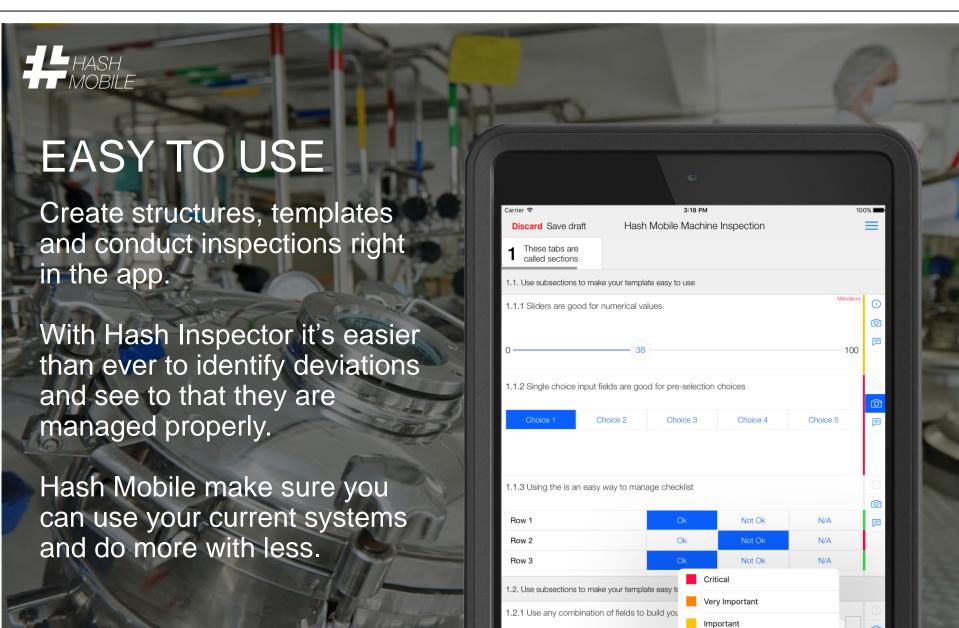


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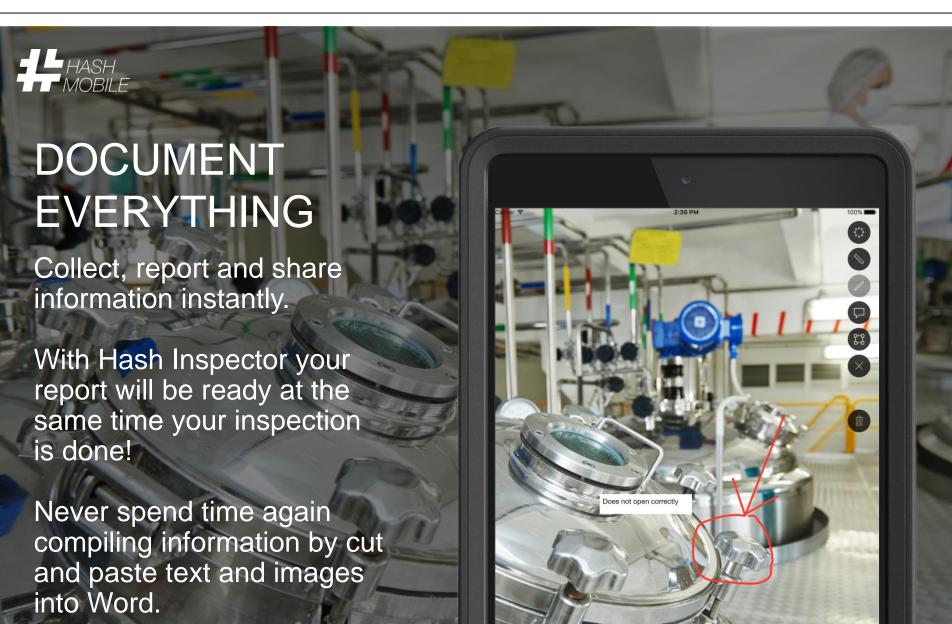




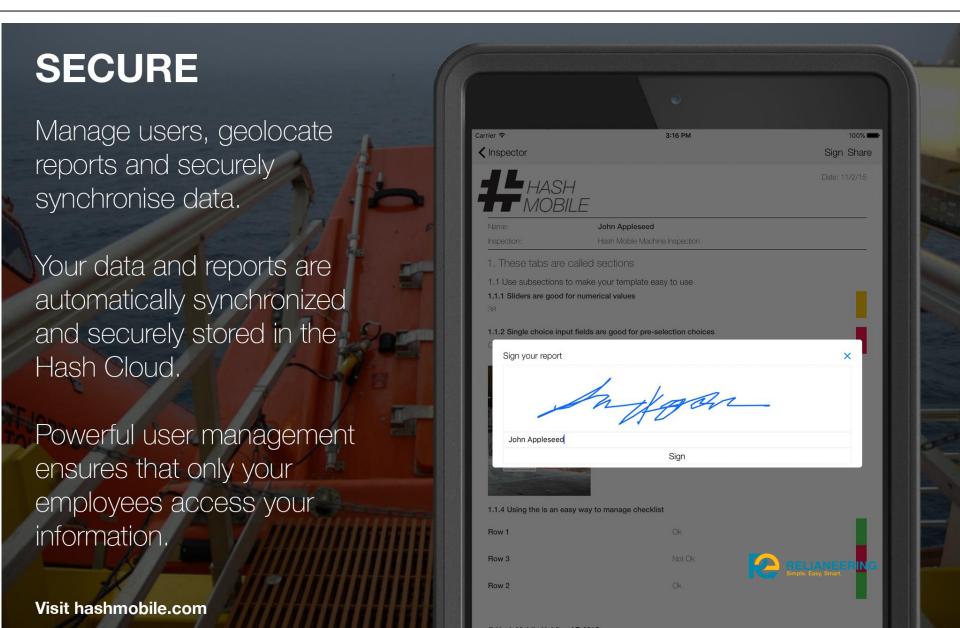


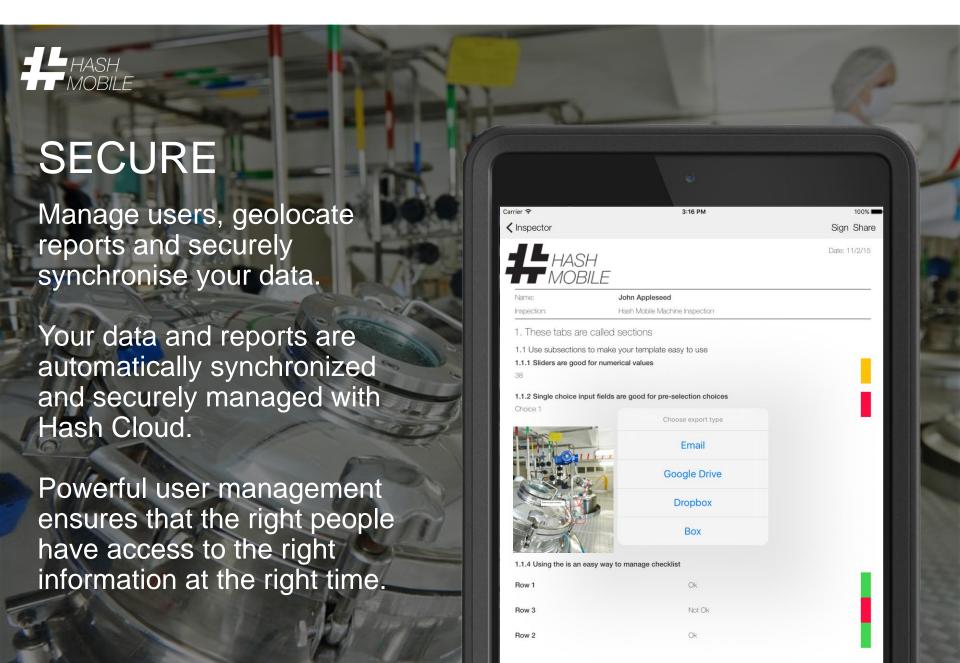






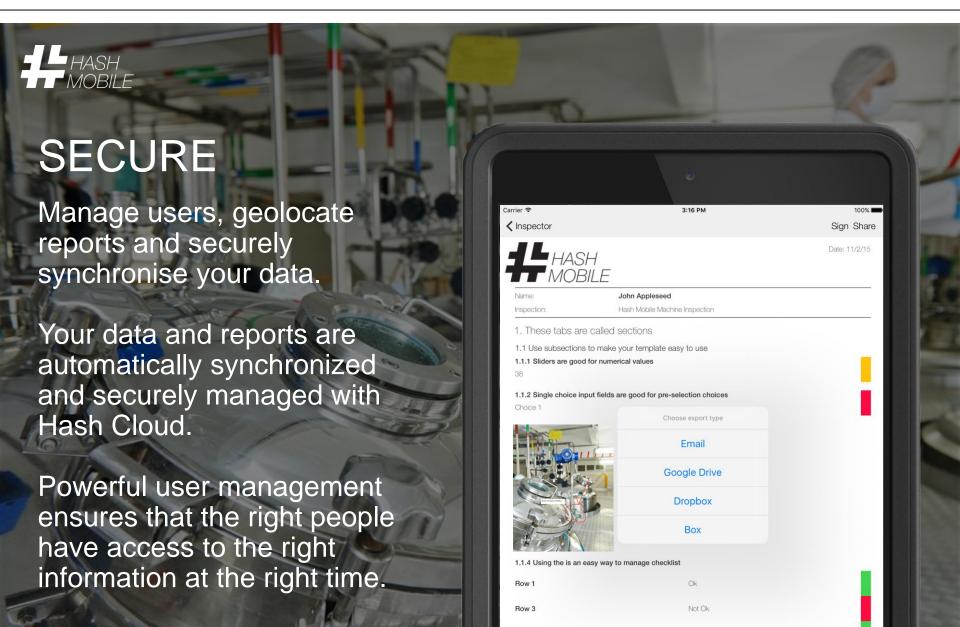






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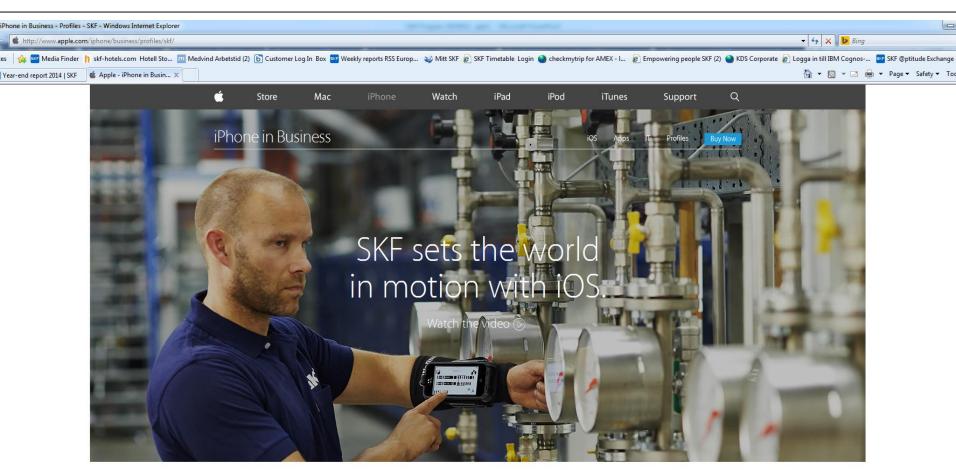
Hash Cloud ensure that your staff is always working with the latest information help you keep track of your reports.

Hash Cloud provides a powerful Dashboard to trend information, find geographic positions and your reports – right at your fingertips.



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"We are going through an industrial renaissance, an industrial change, faster than we've done before. iPhones







Let's together replace complexity with Simplicity

Thank you for listening

The way we move

