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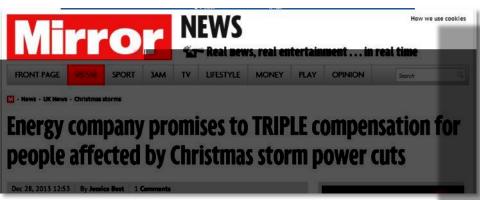
















"The electric utility model is doomed to obsolescence" Bloomberg

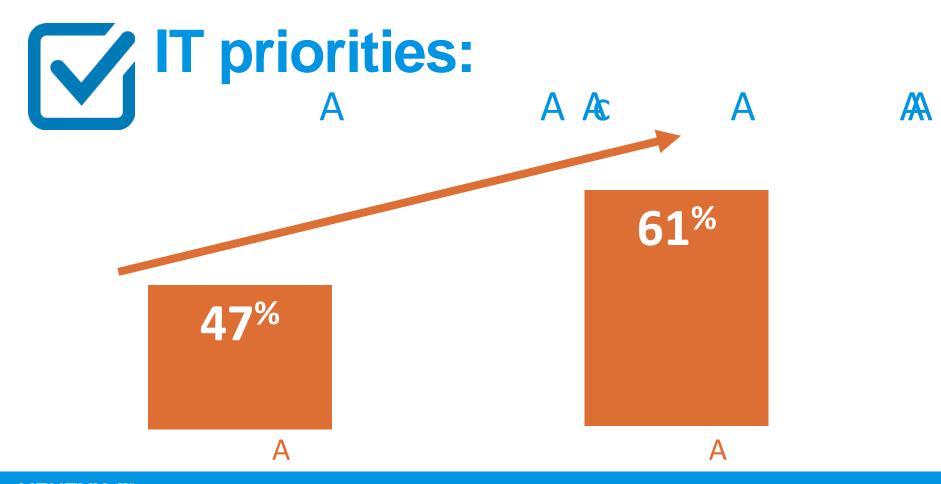


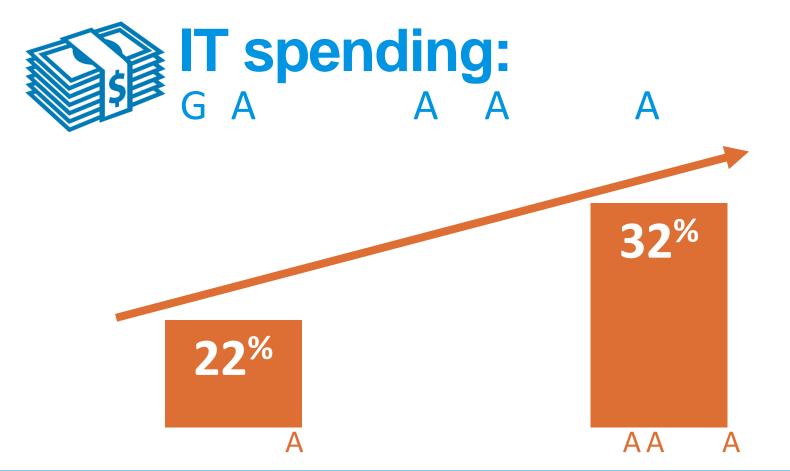








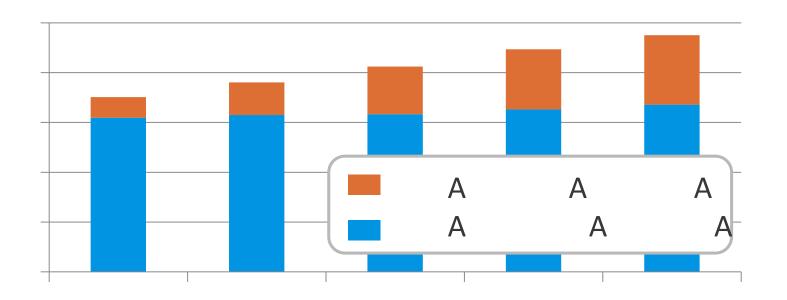






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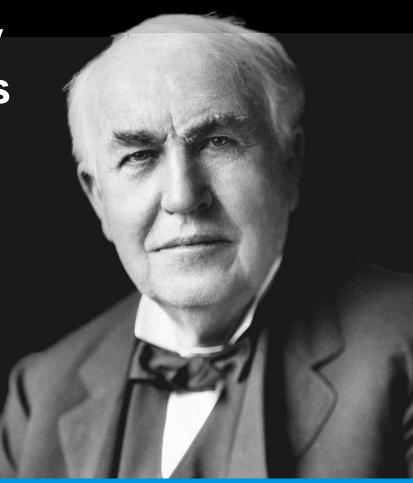
Asset Health and Analytics Software





Opportunity is missed by most people because it is dressed in overalls and looks like work.

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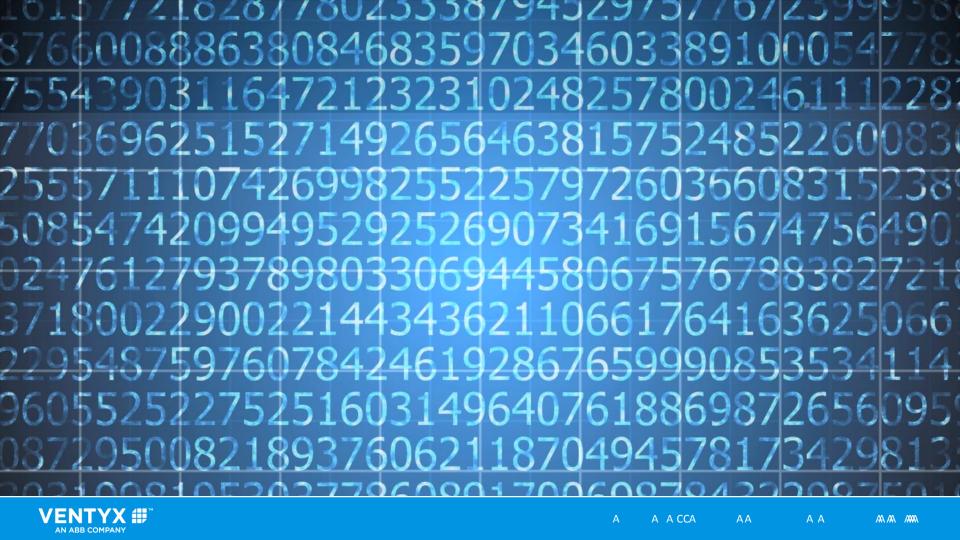


What are today's challenges?

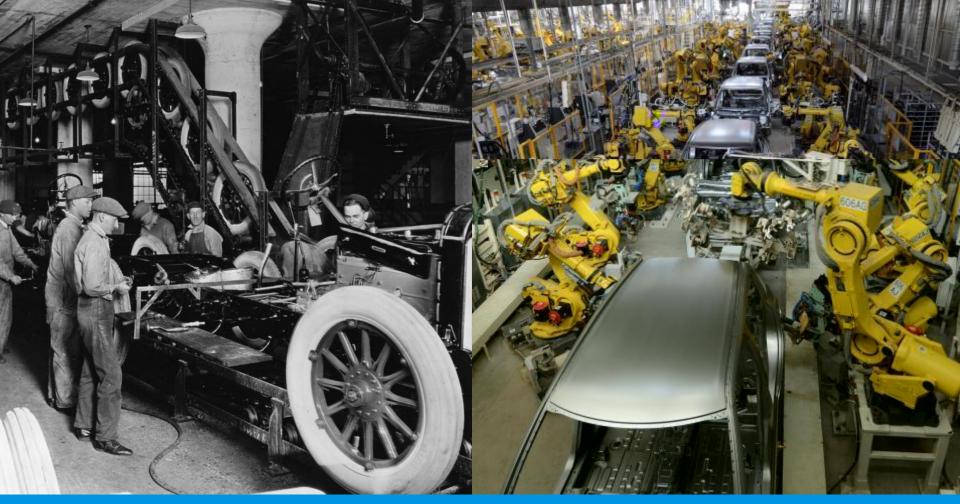


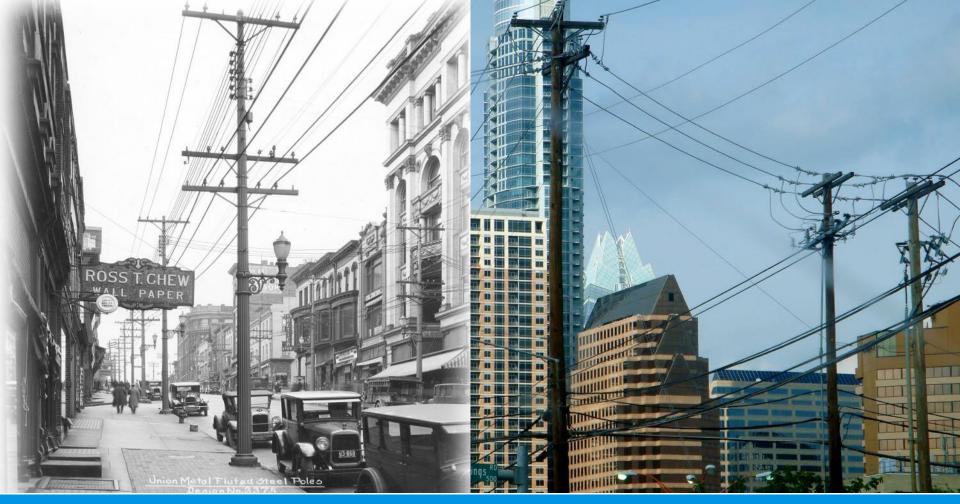
- 1. Needs
- 2. Generation & storage
- 3. New services
- 4. Streamline operations















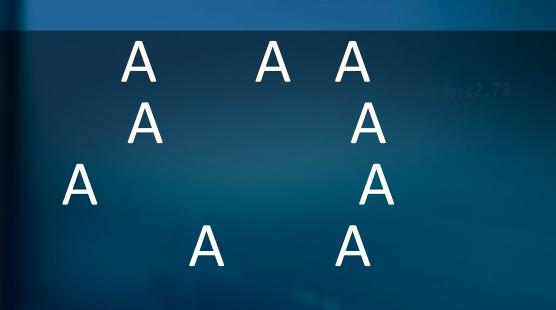




Surplus













How to lose half a trillion euros

Europe's electricity providers face an existential threat

On JUNE 16th something very peculiar helping push wholesale electricity prices

happened in Germany's electricity down, and could one day lead to big reduc-

where electricity from renewable source has grown fastest. The country's bigges utility, E.ON, has seen its share price fall b three-quarters from the peak and its in come from conventional power general tion (fossil fuels and nuclear) fall by mor than a third since 2010. At the second-lar est utility, RWE, recurrent net income ha also fallen by a third since 2010. As th company's chief financial officer lament "Conventional power generation, qui



Surplus Customer Retention







Surplus **Customer Retention** New competitors









VENTYX ##





Modernizing gives customers more





IT gets it.



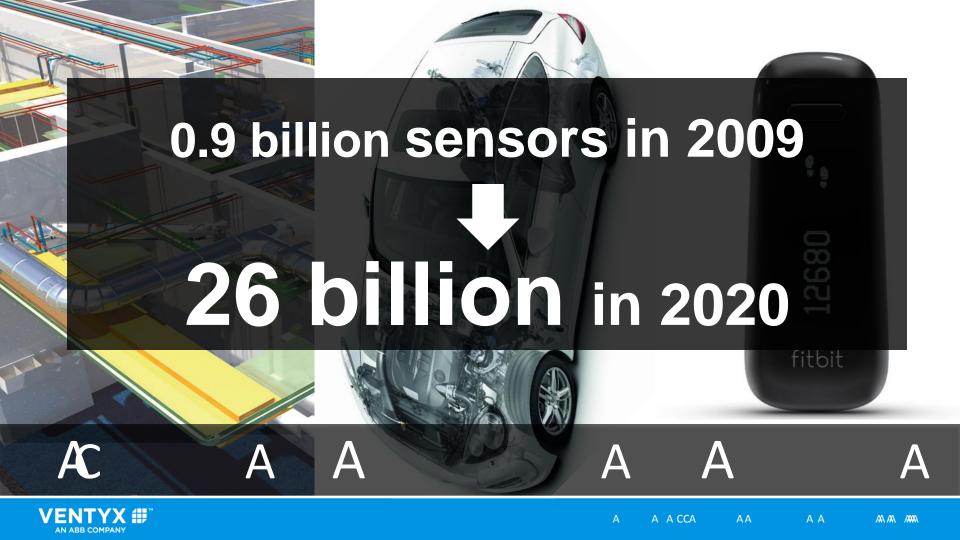
















Power and productivity









VENTYX # **

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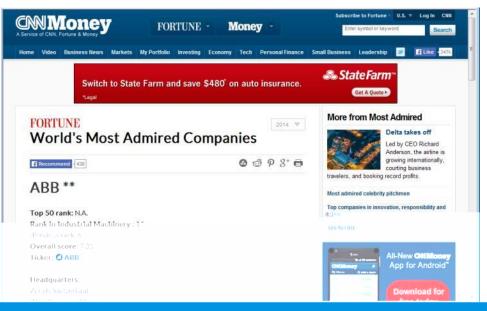


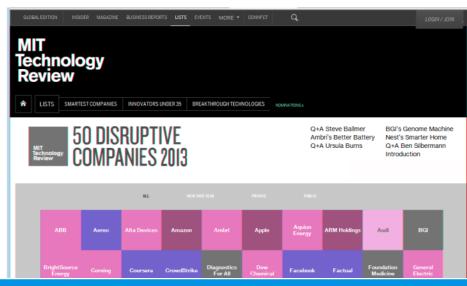


Fortune magazine:

MIT Technology Review:

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VENTYX ∰™

W



→ REMOTE CONTROL CENTER

─ LOCAL CONTROL CENTER

- PLANT FLOOR

- POWER GRID

W

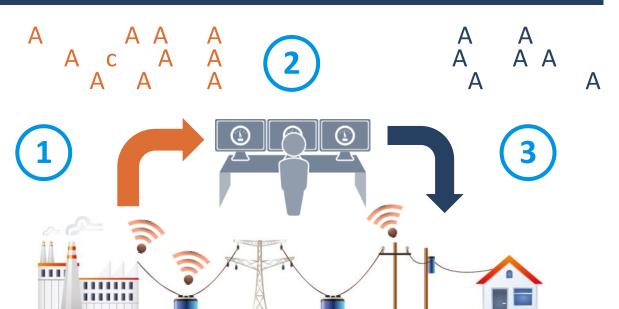
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Information Technology

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Benefits of the IT/OT Converged Enterprise



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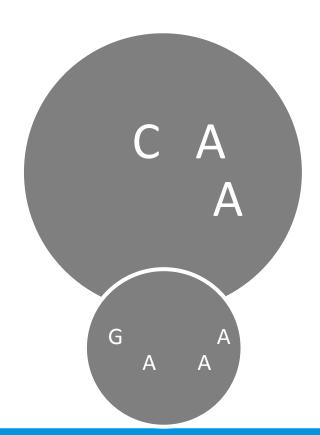
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Operational Technology

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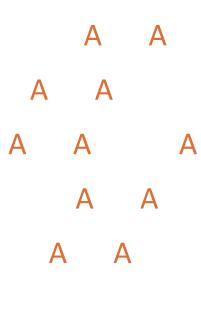
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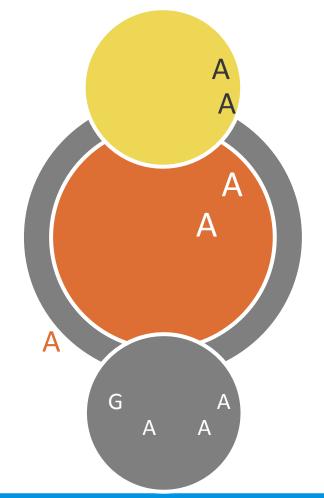
Big Data for Asset HealthA





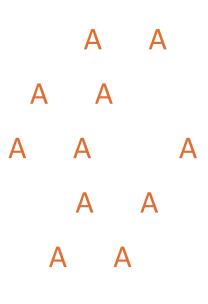
Big Data for Asset HealthA

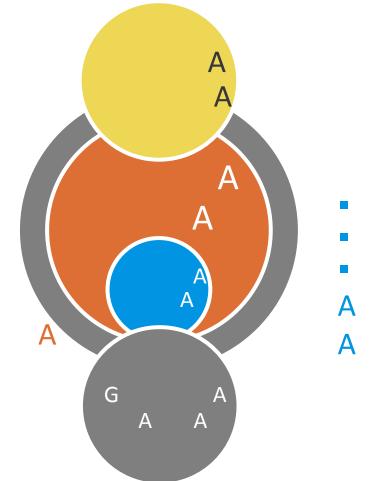






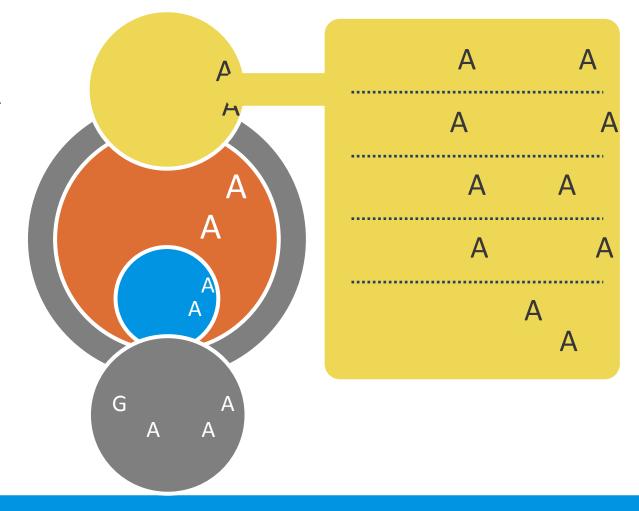
Big Data for Asset HealthA





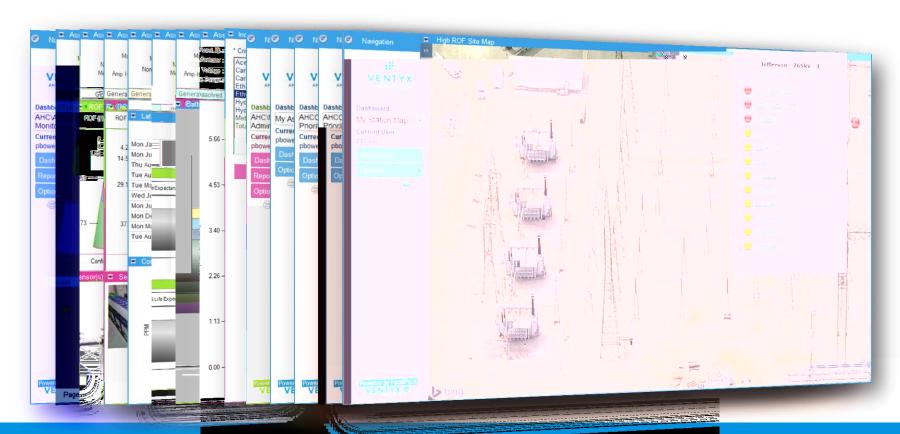


Big Data for Asset HealthA

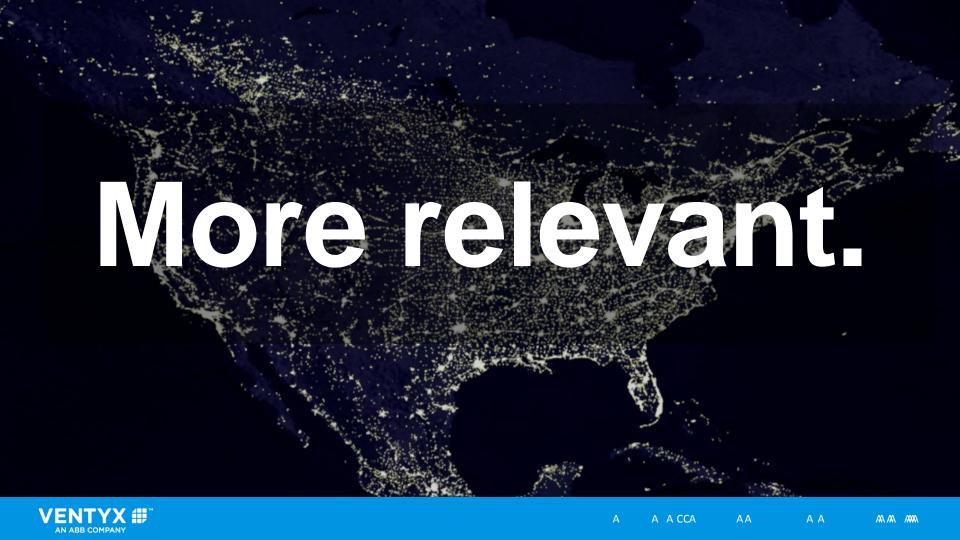




C A A A A











抗抗 5m customers







40k miles of transmission lines

240k miles of distribution lines



★ 16,760 circuit breakers

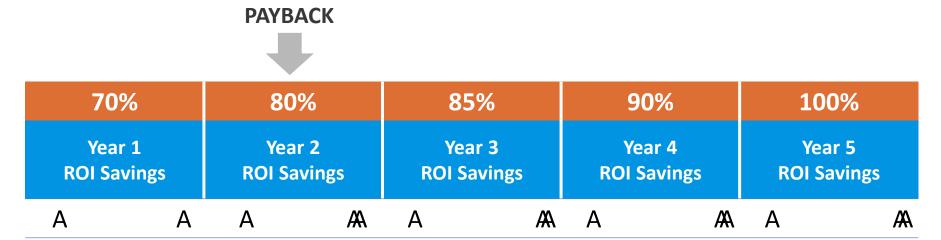
2,609 battery systems



→ 6,423 transformers



Example of projected 5-year ROI

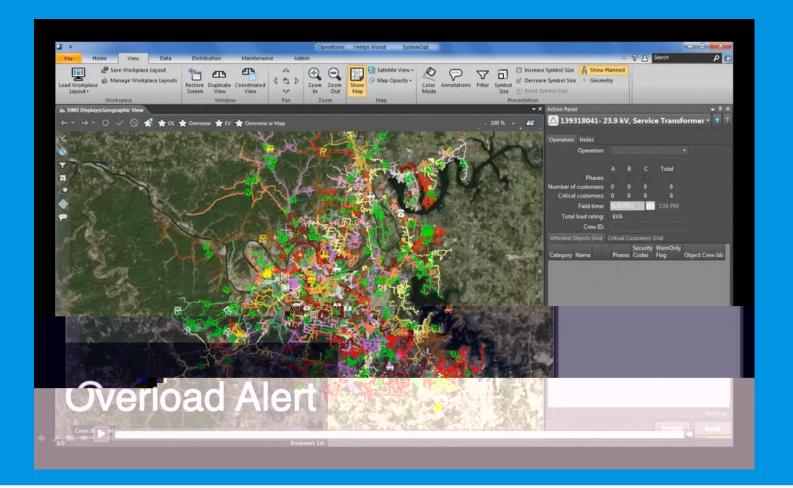


*******Total ROI \$8,634,877**











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Distribution optimization

VATTENFALL



Opportunity through innovation drives relevance.





Men have become tools of their tools.



