

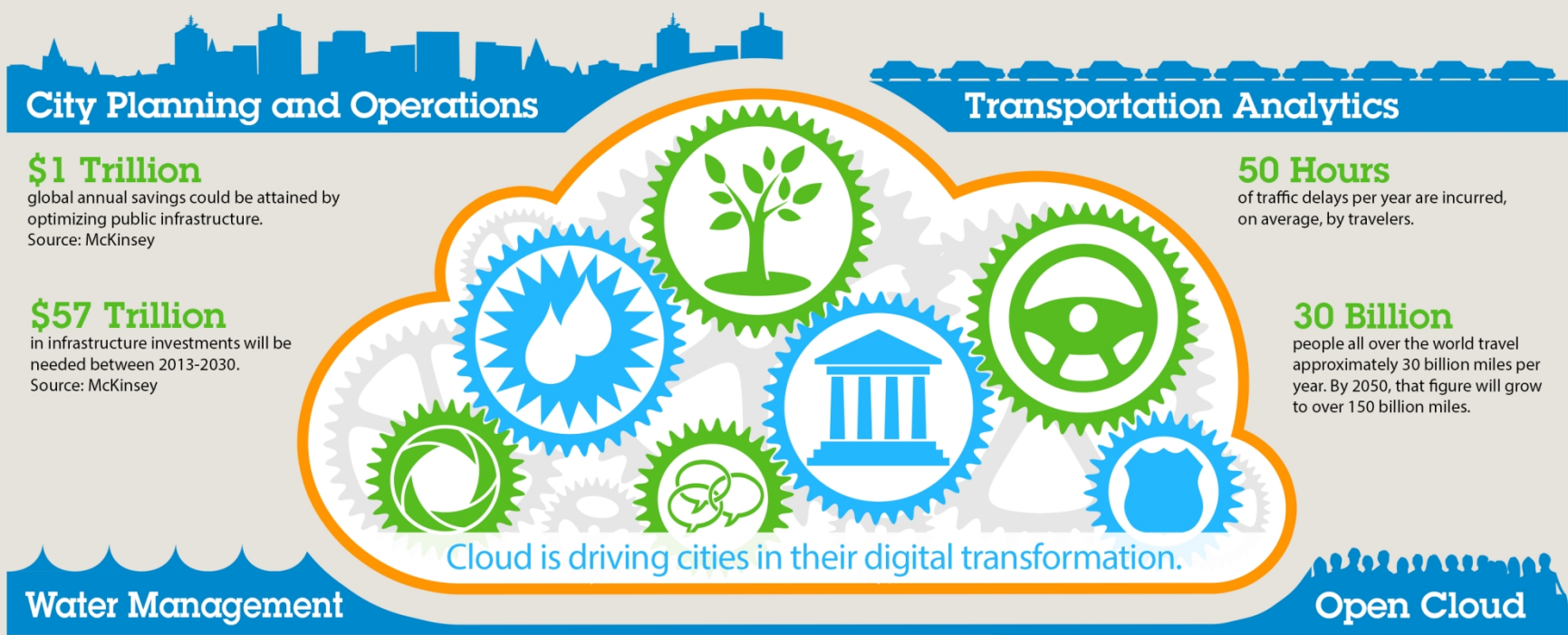
Smarter Water: Fremtidens vandforsyning

Morten Riis, Business Development Manager, Grundfos

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Smarter Cities: Turning Big Data Into Insight



City Planning and Operations

\$1 Trillion
global annual savings could be attained by optimizing public infrastructure.
Source: McKinsey

\$57 Trillion
in infrastructure investments will be needed between 2013-2030.
Source: McKinsey

Transportation Analytics

50 Hours
of traffic delays per year are incurred, on average, by travelers.

30 Billion
people all over the world travel approximately 30 billion miles per year. By 2050, that figure will grow to over 150 billion miles.

Cloud is driving cities in their digital transformation.

Water Management

60%
of water allocated for domestic human use goes to urban cities.

\$14 Billion
in potable water is lost every year because of leaks, theft and unbilled usage.
Source: World Bank

Open Cloud

37,000
cloud experts support IBM's industry team alone.

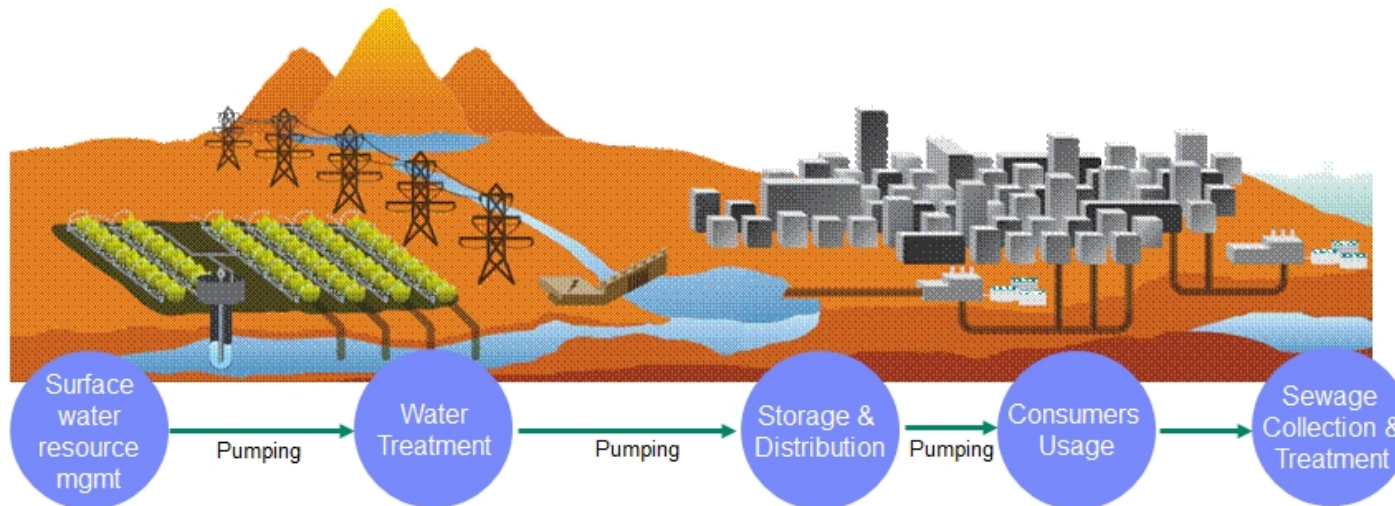
\$6 Billion
has been invested by IBM in more than a dozen acquisitions to accelerate its cloud initiatives.








IBM Smarter Business 2013
BusinessConnect



Værdikæden for vand



 <p>Several municipalities using dashboards to share one water source Value - Reduced water shortages & lost water through improved monitoring and improved management of recreation areas</p>	 <p>Ludington Pumped Storage Plant: optimize operating schedule, linked to energy demand signals Value - Improved plant utilization, leading to savings of \$8m / year</p>	 <p>Asset management, predictive maintenance, truck routing optimization. Value - Truck fuel costs down 20%, labor costs down \$1.8M/yr, avoided call center costs, \$3.8M in recaptured revenues</p>	 <p>Smart water meters, infrastructure & client dashboards Value - Consumer dashboards drove water use down by 6.6% and increased leak detection</p>	 <p>Allowing citizens / users to understand and alter water consumption, and for utilities to improve demand forecasting Value - Achieved 6.6% decrease in water consumption over a 9-week period</p>	 <p>CSO monitoring using single and system level integrated view. Value - Reduced wet weather overflows by 23% and virtually eliminating dry weather wastewater overflows from 27 down to 1 in its first year of operation</p>
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IBM og Grundfos

- Fælles vision for fremtidens byer
- Cleantech som jobskaber i Danmark
- Præsenterer sammen på 3GF (Global Green Growth Forum) konferencen 21-22 Oktober i København



Demand Driven Distribution

Morten Riis, Grundfos





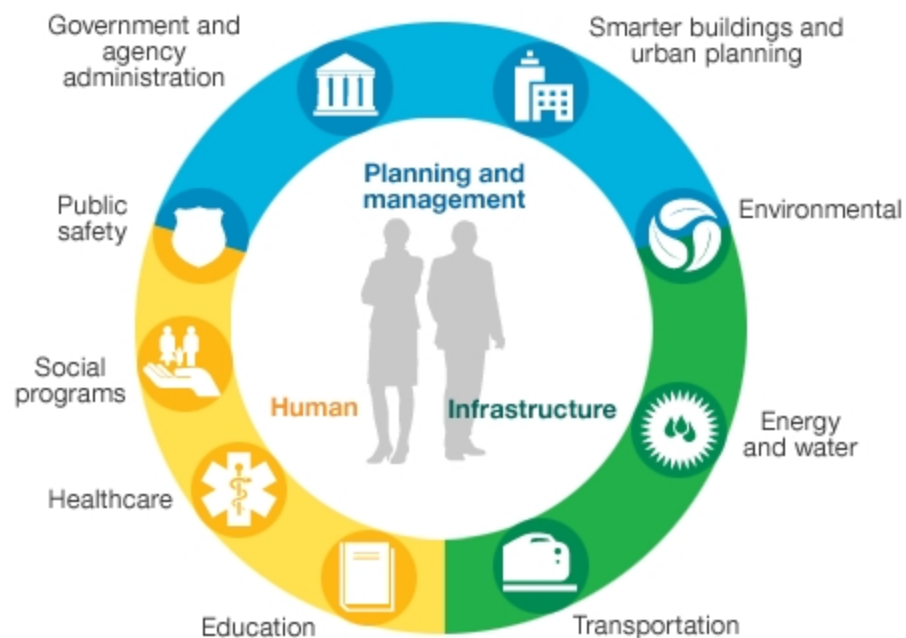
Grundfos Demand Driven Distribution

<http://youtu.be/DxEuAxID79c>
<http://youtu.be/wwES0U6VgYY>



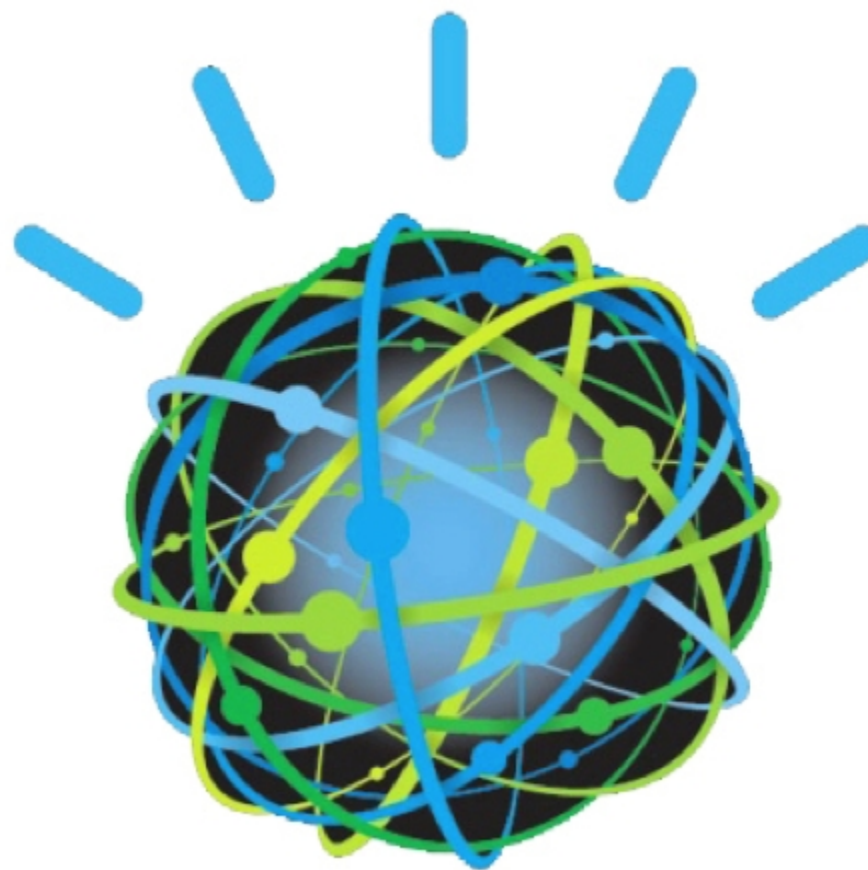
IBM Intelligent Operations Center

- Én integreret platform tilpasset til en *Instrumented, Interconnected & Intelligent* virkelighed
- Platform for overblik, analyse, forudsigelse, handling og samarbejde
- Baseret på åbne standarder og færdige integrationer til GIS, SCADA mv
- Moduler som *Intelligent Operations for Water* med fuldt begrebsapparat





Spørgsmål?



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