Innovation Forum

E-world of energy & water 2020
Essen – 11.02.2020

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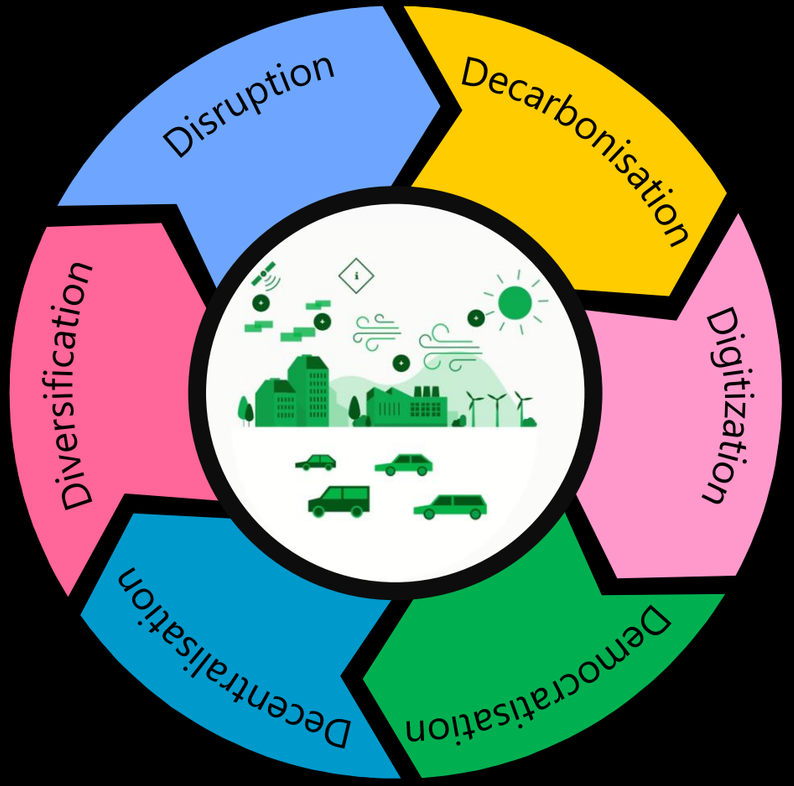
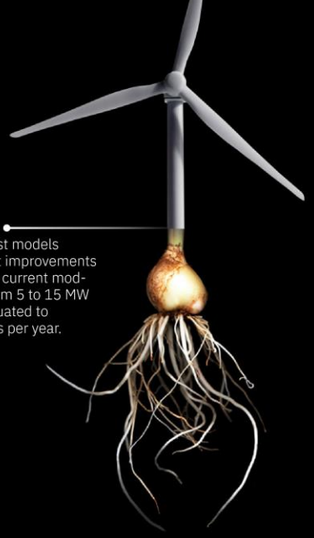
Data Is Oxygen!



Cut equipment purchases
A fleet-management company saved US$9.5M by achieving 100% availability with fewer vehicles.



Improved forecasting
IBM's windpower forecast models demonstrated significant improvements in accuracy compared to current models. Increases ranged from 5 to 15 MW per wind farm, which equated to US$300–400K in savings per year.

Better use of resources
An electric utility distribution company improved productivity 14% by better use of resources.

Improved asset utilization
A large OEM reduced overhaul times from 56 days to 21 days.

Reduced plant downtime
A power-generation utility reduced planned overhauls by 5% and eliminated 5% of forced outages, saving US$4.6M annually.

Better forecasting
IBM's hydropower forecast models improved accuracy significantly compared to current models. Increases ranged from 47% to 72% per hydro facility, which equated to US$1–6M in savings per year.

Reduced inventory costs
A power company reduced inventory by 26%, and an electric and water utility achieved 25% in inventory reduction and US$33M in savings.

Reduced operating costs
90% of C-level executives representing 15 countries and 13 industries say weather insights could reduce annual operating costs by 2% or more.

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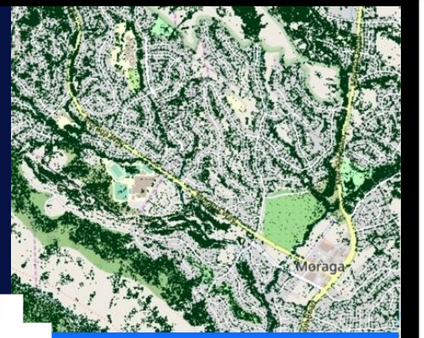
IBM

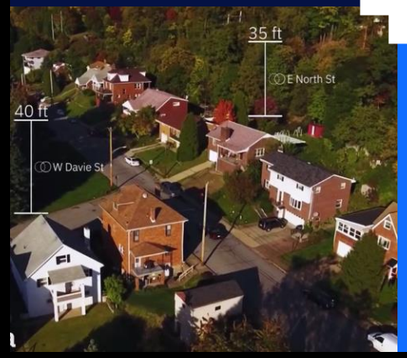
Example

Vegetation Management

Massive Geospatial temporal data

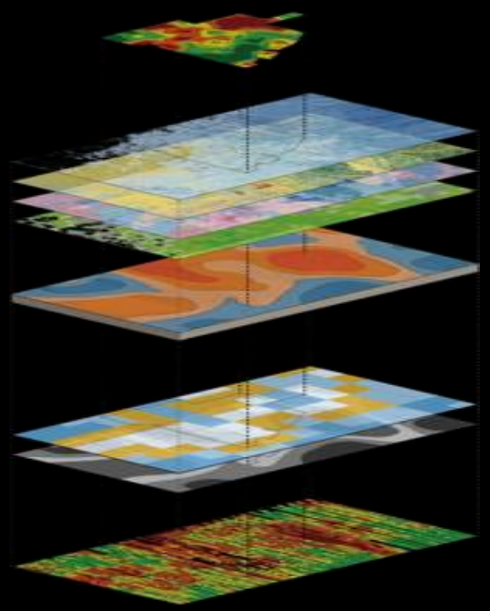
- Satellite, and aerial imagery
- Weather
- Soil moisture
- Foliage, etc.

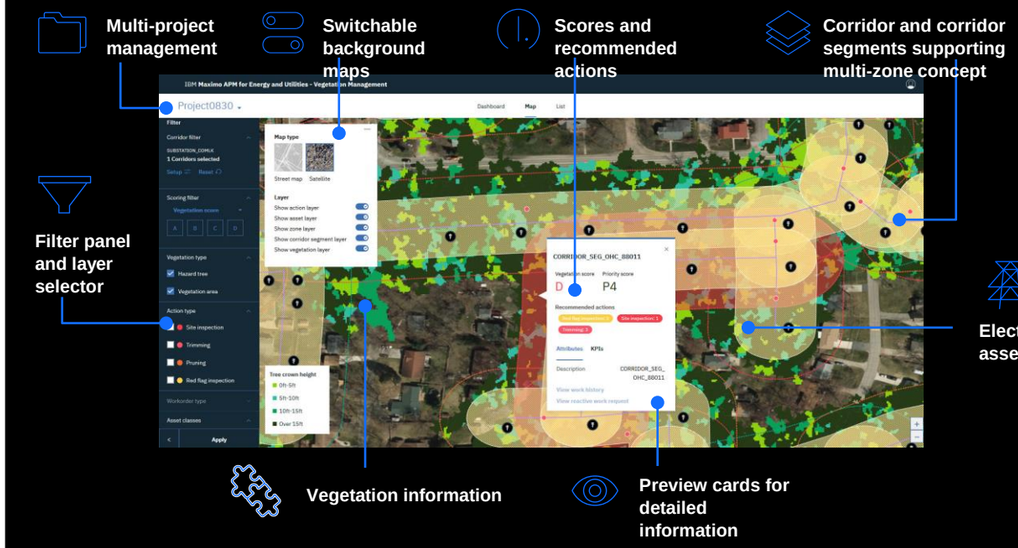




Combined with customer data

- Asset inventory
- Condition and location
- Historical outage data





Source : https://www.ibm.com/weather/industries/energy-utilities#1630541