

# Energy Strategy Summit 2020

## Strategy for technology

30th June 2020

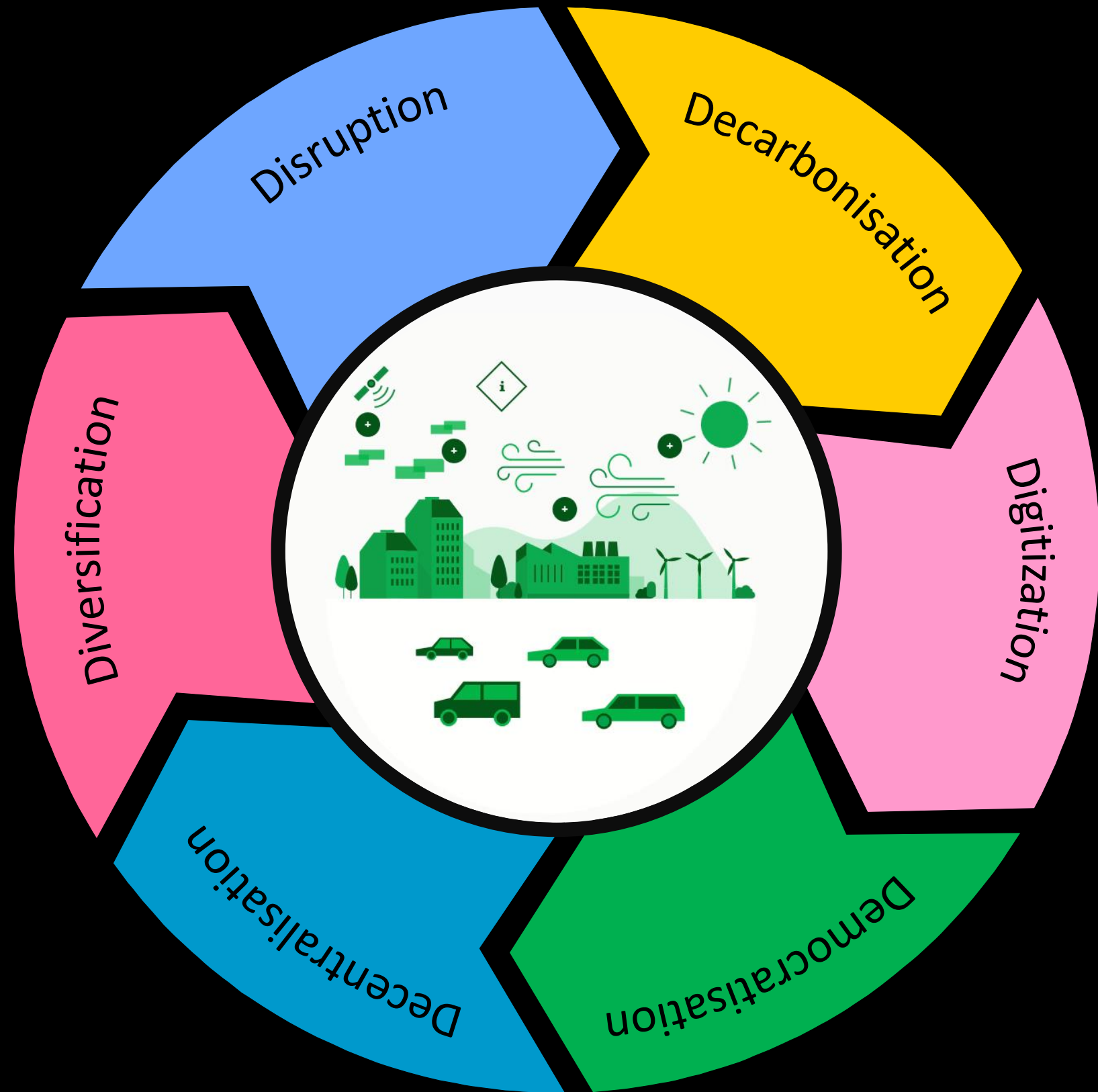
---

**Michal OSLADIL**

Energy & Utilities Leader for IBM CEE

[michal.osladil@cz.ibm.com](mailto:michal.osladil@cz.ibm.com)

Cross industry  
business  
networks drive  
transition and  
environment  
effects.



Examples – not exhaustive list

AI is and will be  
applied in a  
broad set of  
use cases for  
Energy,  
Environment &  
Utilities



# Data is what fuels digital transformation ...

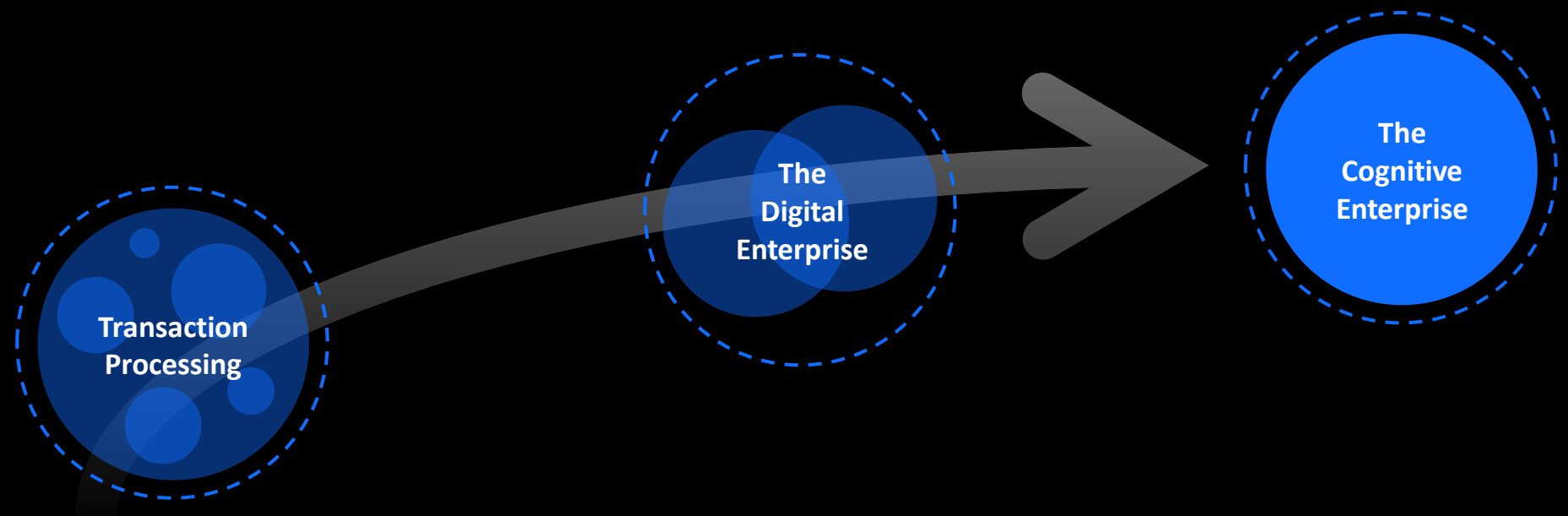
There is no  
AI without  
IA

**81%**  
do not understand  
the data required for  
AI

**80%**  
of data is either  
inaccessible, untrusted or  
unanalyzed

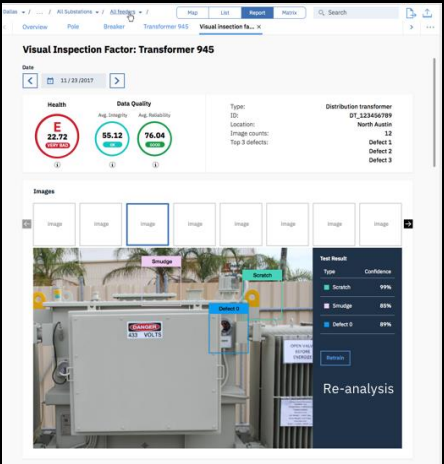
Yet, only **15%** get  
what they need from  
their data

... and is amongst the key factors  
towards a Cognitive Enterprise.



# Asset Performance Management

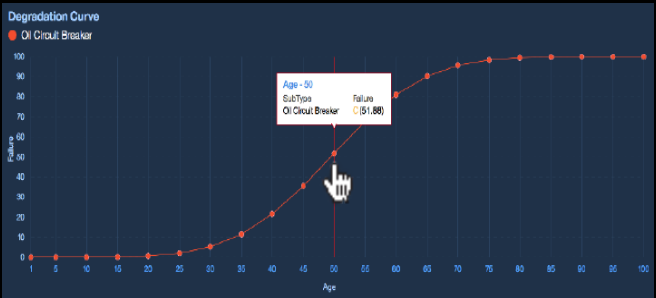
1. Find which assets require attention
2. Investigate what's happening with the assets
3. Unlock unstructured data to get additional insights



Tony, Reliability Engineer

Investigates asset condition and prioritizes required asset work

4. Understand asset health and criticality
5. Assess how asset failure probability and remaining life will evolve over time
6. Prioritize asset work



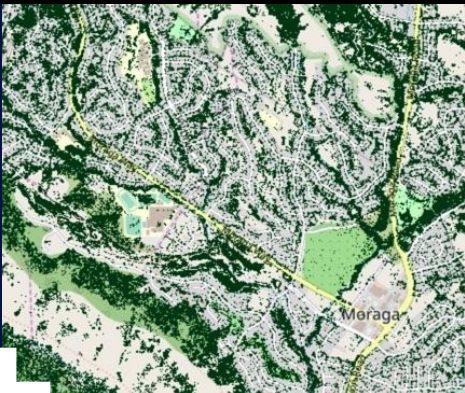


# Vegetation Management



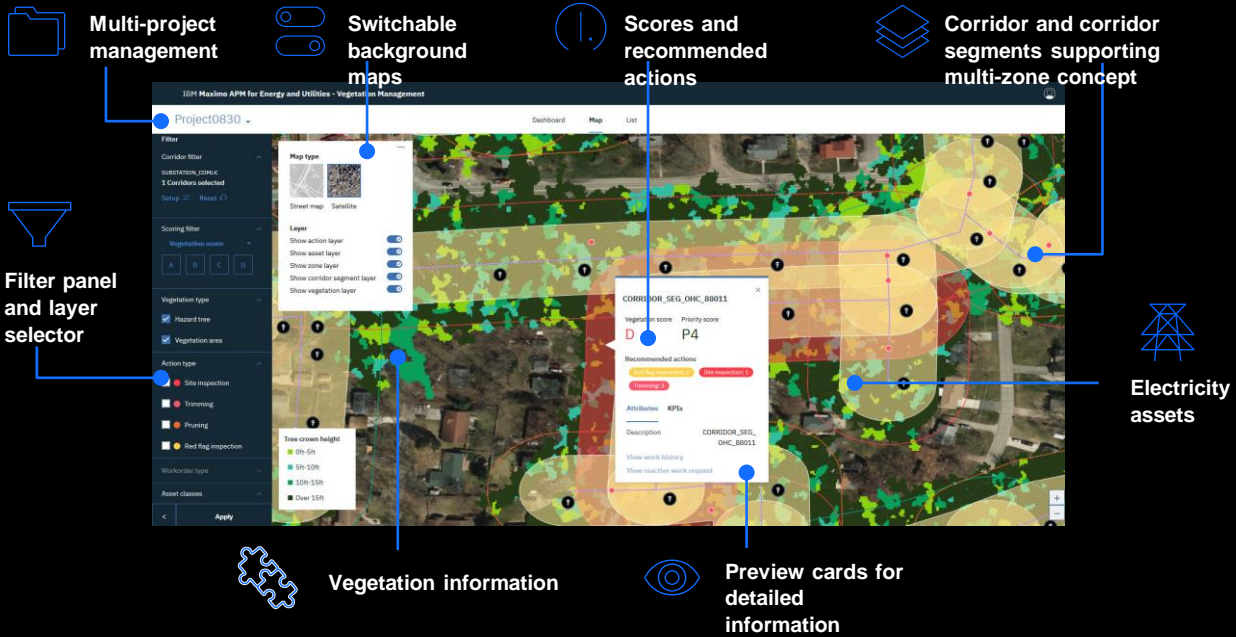
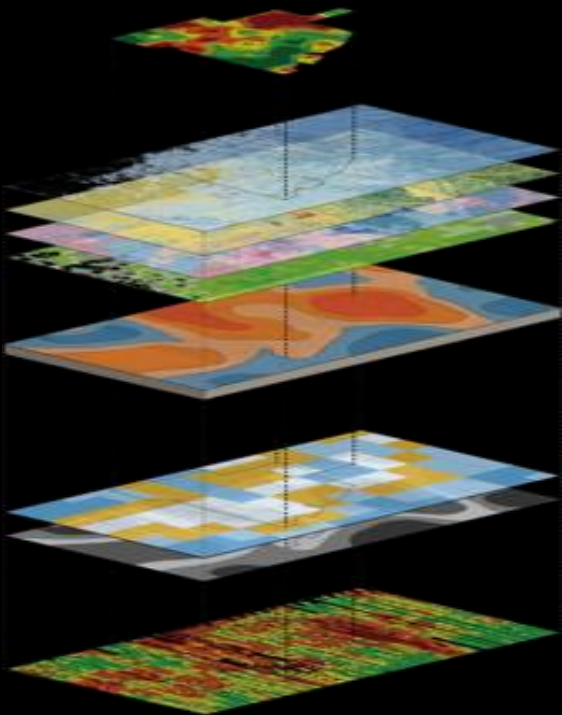
## Massive Geospatial temporal data

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



## Combined with customer data

- Asset inventory
- Condition and location
- Historical outage data



IBM AI principles and ethics as well as pragmatic guidance differentiate our business model from other market participants and are supposed to drive trust in and acceptance of AI solutions

## Principles

*“Every organization that develops or uses AI, or hosts or processes data, must do so responsibly and transparently. Companies are being judged not just by how we use data, but by whether we are trusted stewards of other people’s data. Society will decide which companies it trusts.”*

-Ginni Rometty, IBM Chairman, President and CEO

### Purpose

The purpose of AI is to augment human intelligence

### Ownership

Data and insights belong to their creator

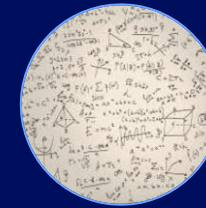
### Transparency

AI systems must be transparent and explainable

## Ethics



**FAIRNESS**  
Is it fair?



**EXPLAINABILITY**  
Is it easy to understand?



**ROBUSTNESS**  
Did anyone tamper with it?



**ASSURANCE**  
Is it accountable?

### Practical solutions, e.g.

Watson OpenScale

AI Fairness 360 Open Source Toolkit

Everyday Ethics for Artificial Intelligence – A practical guide for designers & developers



# Data Is Oxygen!

