GEO DRIVEN DECISION MAKING:

FACILITATING A GEO-SPATIALLY ENABLEMENT OF OPERATIONAL AND DATA DRIVEN PRACTICES

Miquel Carbó, June 2023

THE BEST RUN SAP

BALTIC GEOSPATIAL INFORMATION TECHNOLOGY CONFERENCE

THE BEST RUN

Enable every enterprise to become an

100,300+
Employees

180+
Countries

440,000+
Customers

25
Industries

92%
of the Forbes Global 2000

80%
SMEs

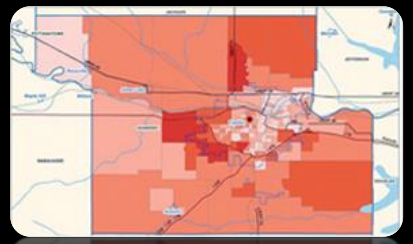
Geospatial challenges and opportunities

Business

GIS helps retailers, real estate professionals, insurers, and others to visualize, manage, and analyze any business asset.

Defense & Intelligence

GIS plays an important role in assessing terrorist targets, battlefield planning, and military facilities management.

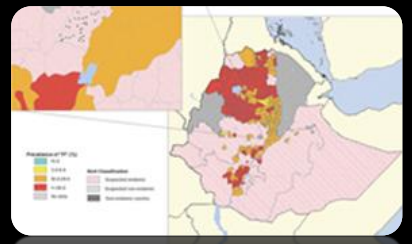


Education

GIS provides educators with tools to help students develop a greater understanding of our world.

Government

GIS helps governments increase efficiency, reduce costs, improve coordination, and deliver transparency and accountability.

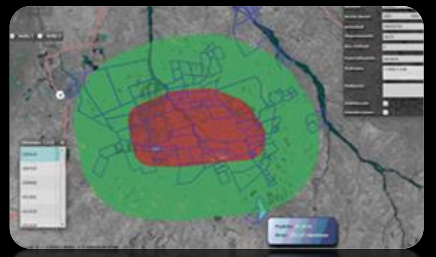


Health & Human Services

GIS helps health organizations leverage limited resources and positively impact individuals, families, and society.

Mapping & Charting

GIS allows aeronautical, cartographic, and nautical organizations to implement an effective and efficient workflow.

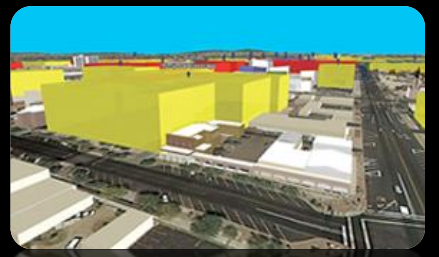


Natural Resources

Natural resource professionals rely on GIS to help make critical decisions as they manage the earth's resources.

Public Safety

GIS gives public safety personnel the ability to visualize relationships and reveal trends critical to response and planning.



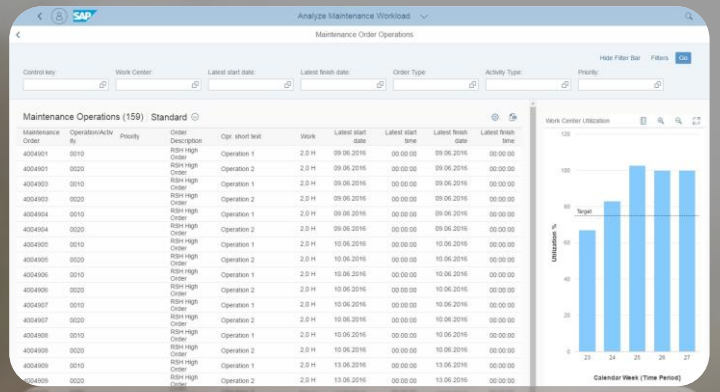
Transportation

Transportation professionals use GIS to help in managing, planning, evaluating, and maintaining transportation systems.

How companies are looking to improve their operations information

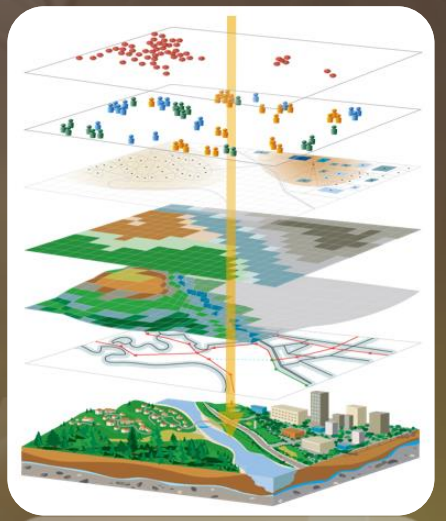
Currently companies balance among silos

Transaction based Operational data



- Business process modelling
- Domains: logistics, finance, commercial, assets
- History / log
- Consolidated datamodel

Spatial based Operational data



- Events
- Field crew, customers
- Assets, Facilities
- Analysis: Territories, Predictive Incidents, etc.
- Elevation, Demographics, Aerial and Drone Umagery
- Utility Network, Rivers
- Holistic View

How companies are looking to improve their operations information

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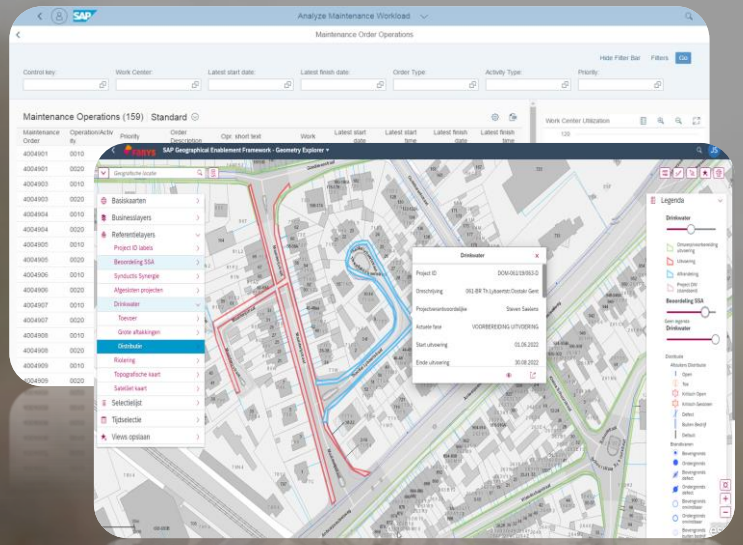
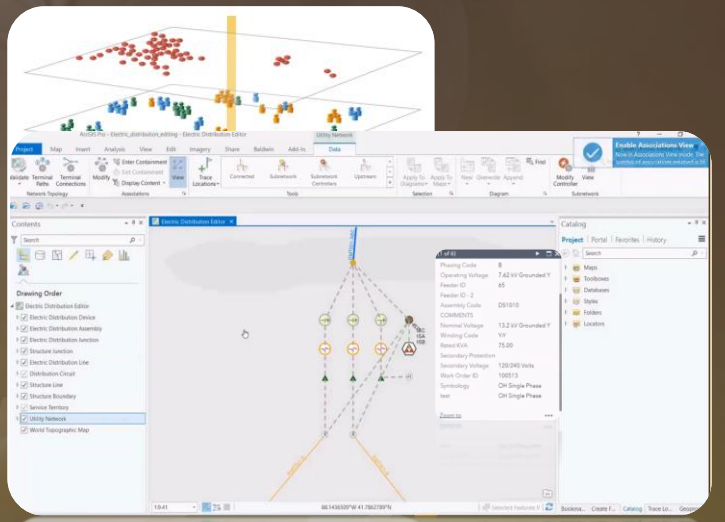


Geo-enabled transactional system

Integration
Spatial Analysis

Realize better decision making, new insights, enhanced workflows, greater productivity and lower TCO

Spatial based
Operational data



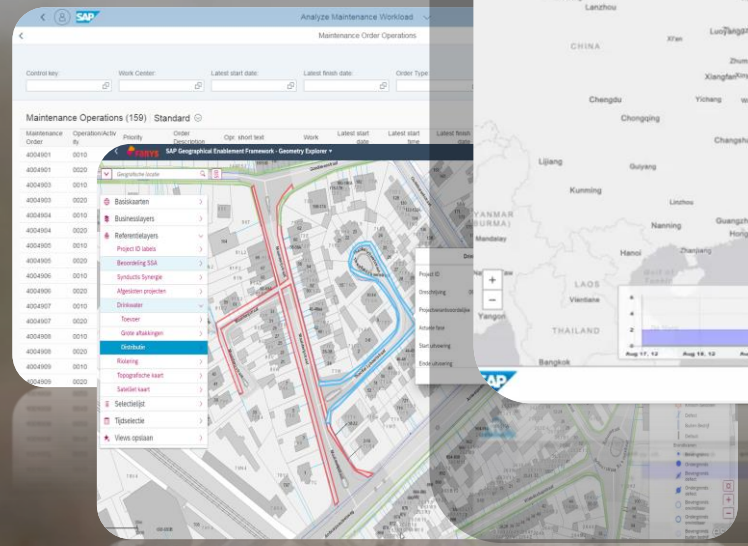
Business-enabled GIS applications

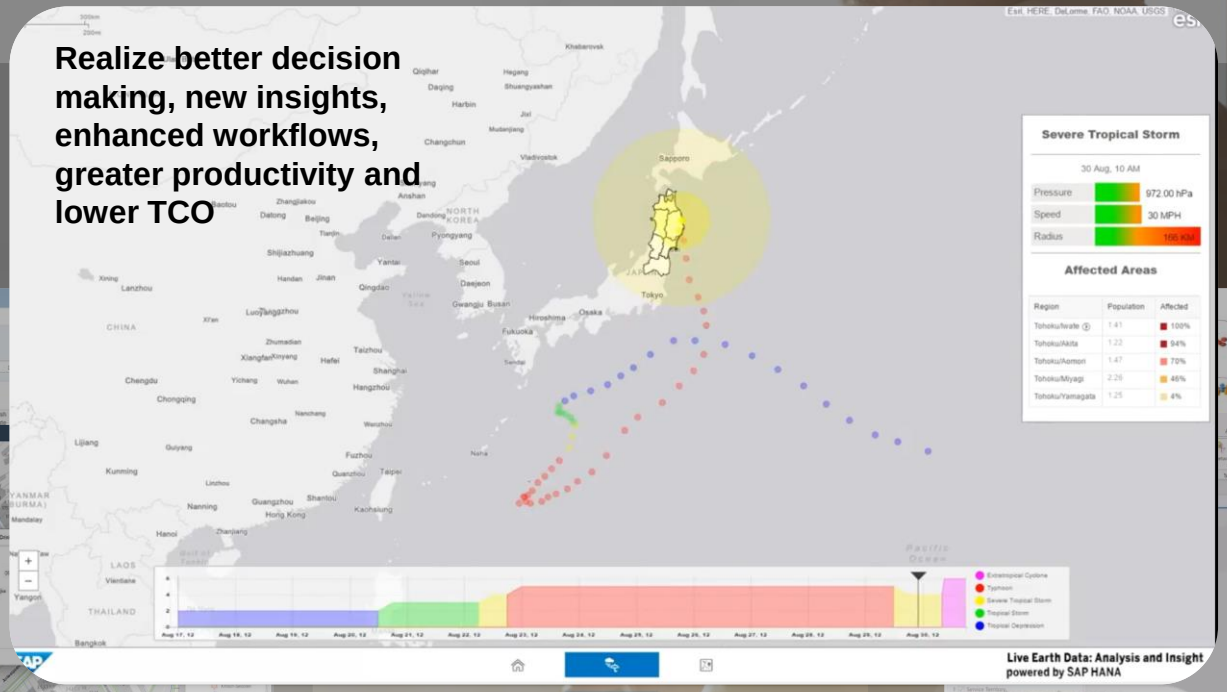
How companies are looking to improve their operations information

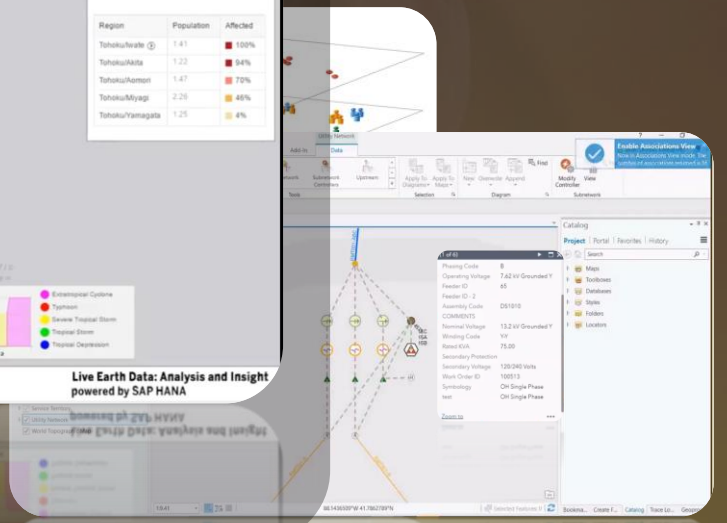
Currently companies balance among silos

Transaction based
Operational data

Spatial based
Operational data



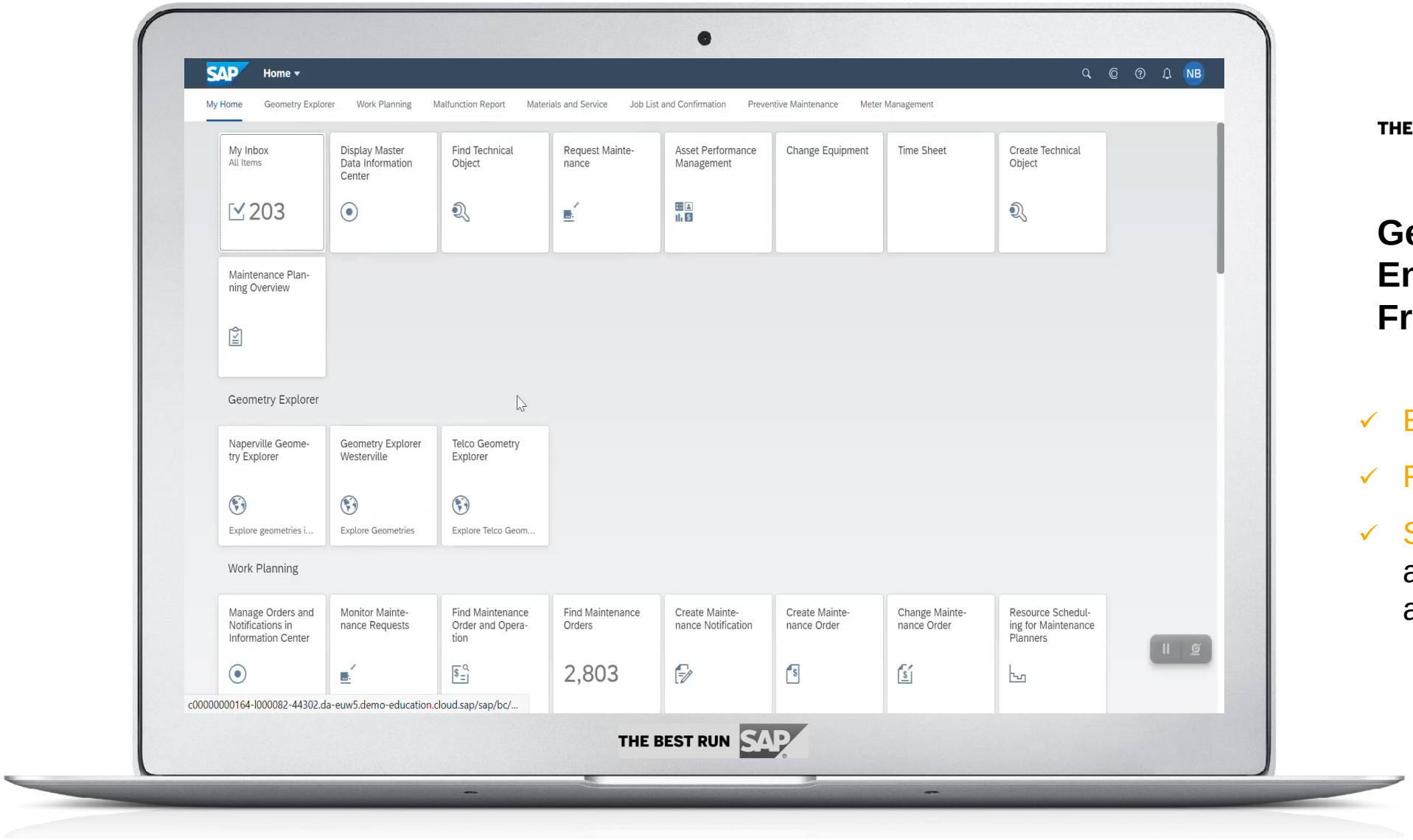




Spatial Analysis
and simulations

Geo-enabled transactional system

Business-enabled GIS applications



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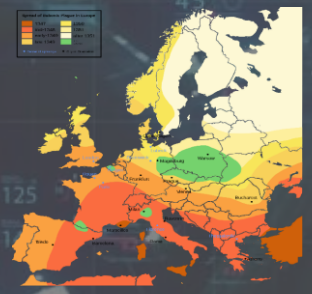
Geographical Enablement Framework

- ✓ Boost productivity
- ✓ Reduce costs
- ✓ Simplify data access and analysis

Integration – it's worth it!

Architecting a Geo-enabled transactional system & Business-enabled GIS applications

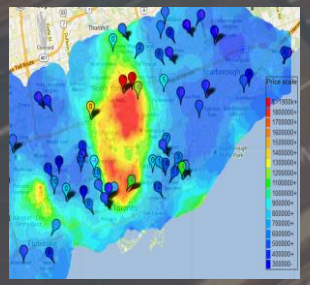


Pinpoint
EVENTS

"Where do I drill for oil?"

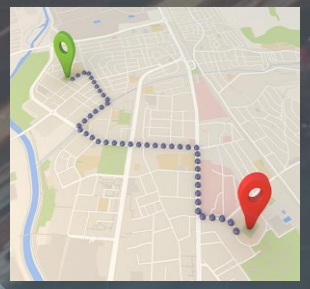
Resolve
BOUNDARIES

"Where can I expand?"



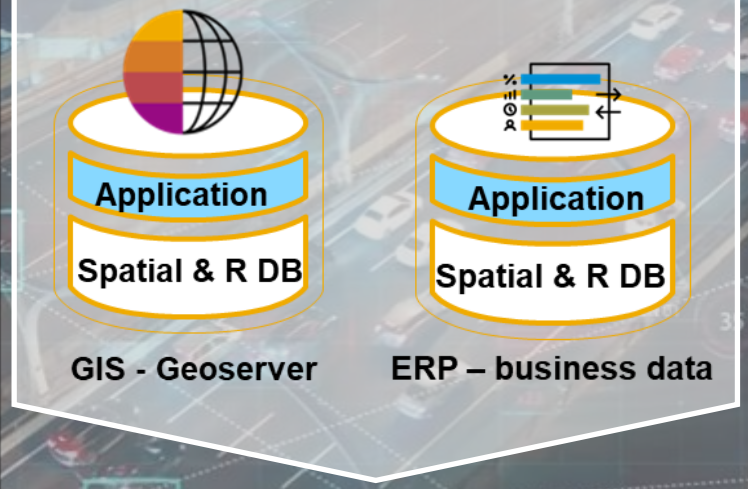
Locate
CUSTOMERS

"Where are my sales under-performing?



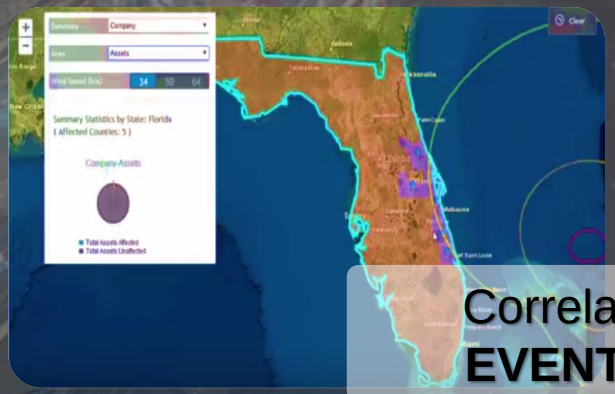
Visualize
ROUTING

"How do I optimize drive time?



Breaking "silos" by integration enables next level of business semantics

Provincie Noord-Brabant



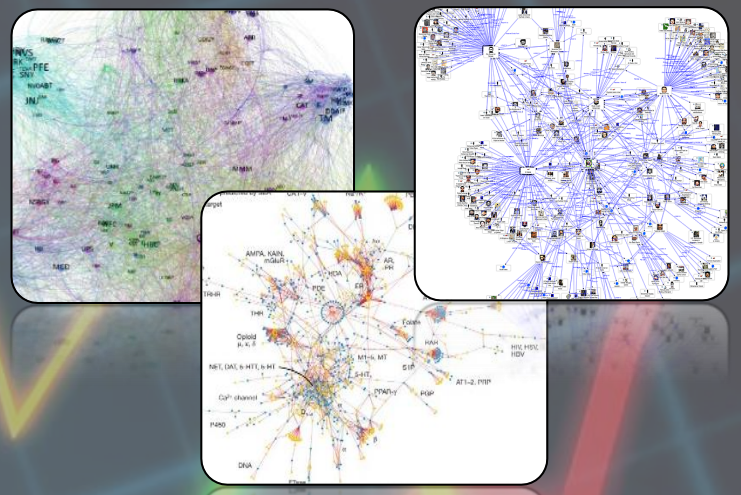
Correlate
EVENTS

Prevent
DISASTERS

Detect
PATTERNS

Graph

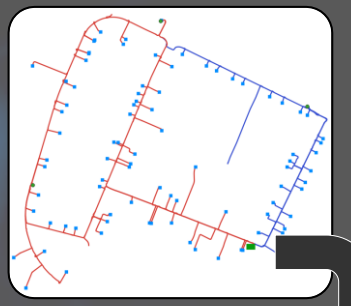
Shifting the Spatial Analytics capabilities



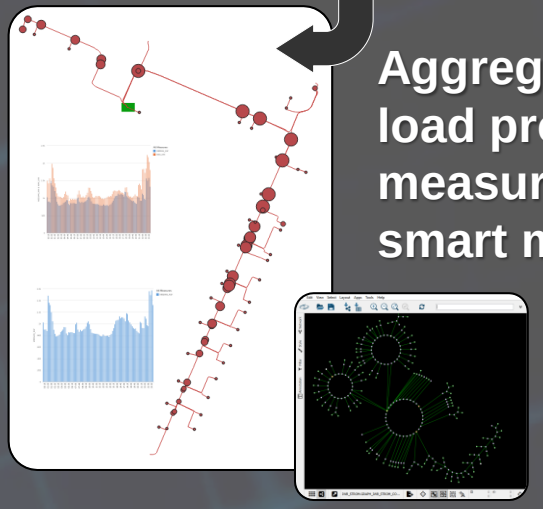
- ✓ Provides the ability to find hidden answers to an entirely new set of business questions which otherwise was not possible before
- ✓ Goes beyond traditional entities and builds relationships into existing data on the fly
- ✓ Finds interconnected data much faster using scalable traversal method without requiring huge table joins in relational database systems
- ✓ With ever growing massively connected data businesses requires easy way to find relationships for building next level business operations

Graph improves the value of business data Combine text, spatial, and advanced analytics with graph intelligence

iwb



Network components/topology



Aggregated load profiles measured by smart meter

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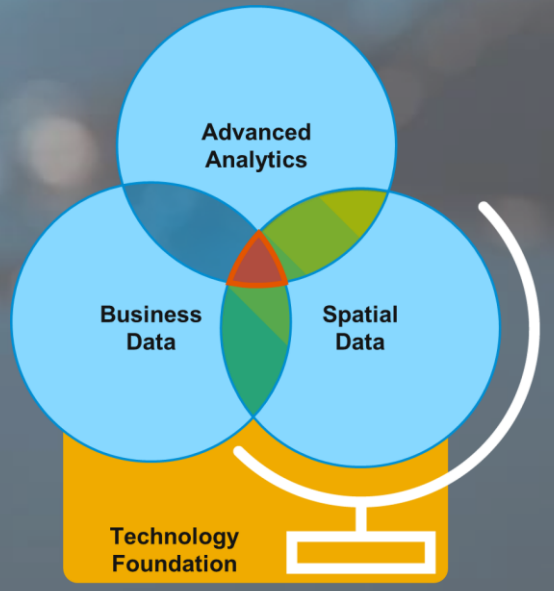
Metaverse experience

FACILITATING A GEO-SPATIALLY ENABLEMENT OF OPERATIONAL AND DATA DRIVEN PRACTICES ENABLES:

- ✓ **Overcome the long-standing silos between GIS and ERP software to improve your business**
- ✓ **Unleash the power of geospatial intelligence within your enterprise through the seamless integration into a platform**
- ✓ **Realize better decision making, new insights, enhanced workflows, greater productivity and lower TCO**

Power your operations by combining Spatial with Business data while using a solid Technology Foundation.



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