

SMART WATER MANAGEMENT
FOR WATER RESILIENCE,
ACCESSIBILITY AND
AFFORDABILITY

ALEXIS DE KERCHOVE

Water Utility Market Manager, EUROPE

XYLEM

GLOBAL WATER CHALLENGES ARE ESCALATING



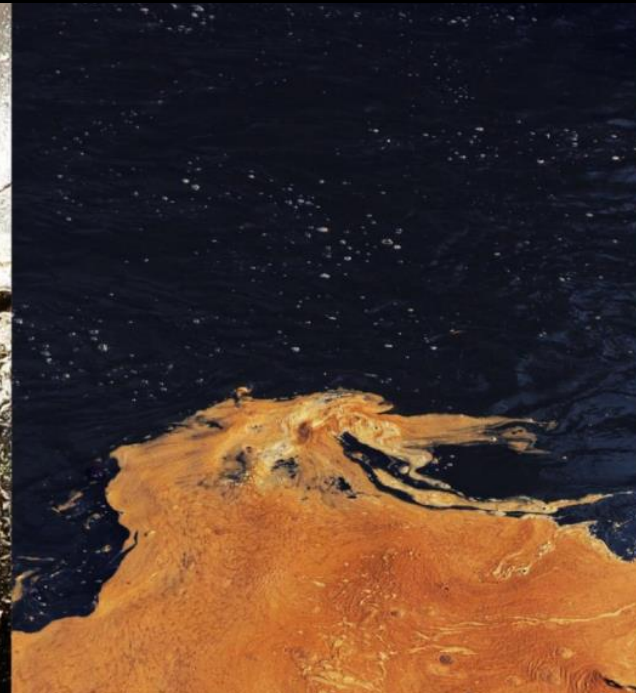
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BILLION

NUMBER OF
PEOPLE
PREDICTED
TO FACE WATER
SHORTAGES
BY 2050



126
BILLION
LITERS

OF WATER IS
LOST BEFORE
IT REACHES
ITS INTENDED
DESTINATION



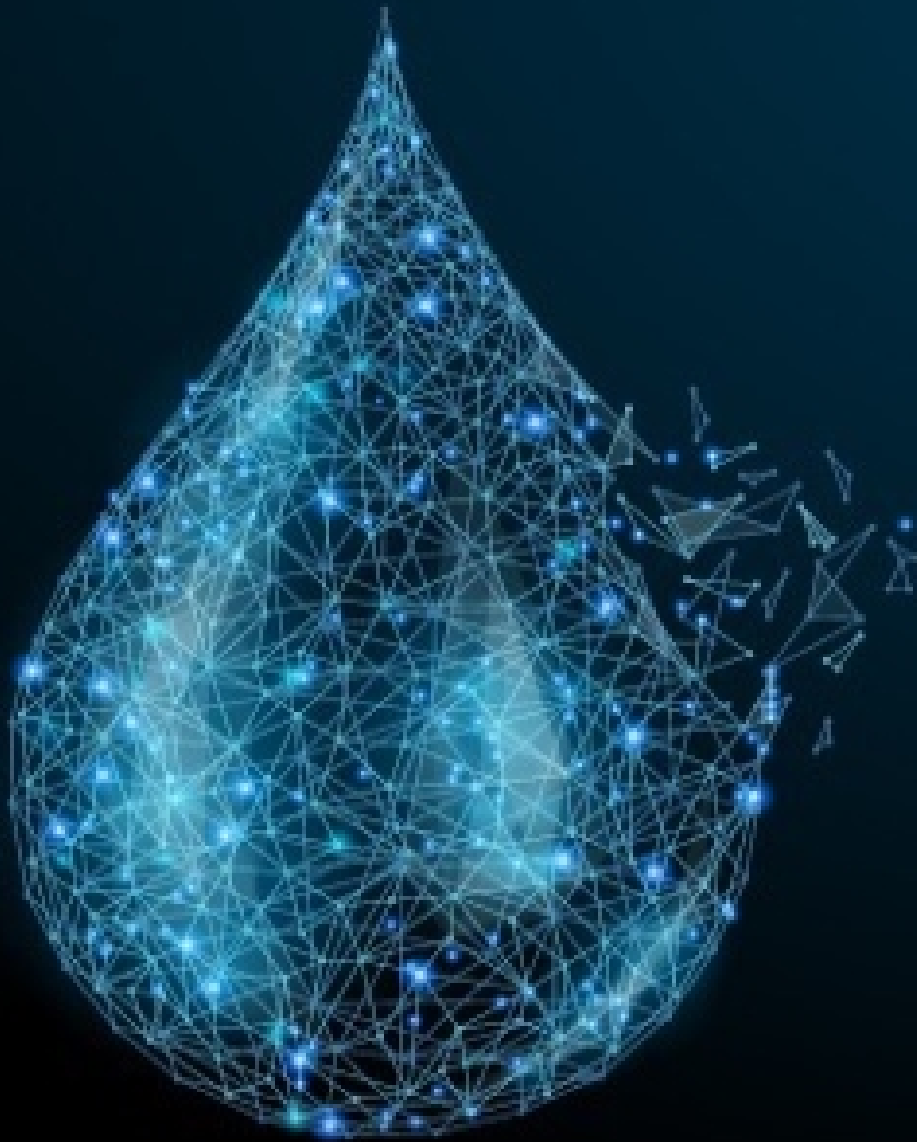
80%

OF THE WORLD'S
WASTEWATER
IS DUMPED –
LARGELY
UNTREATED –
BACK INTO THE
ENVIRONMENT



\$160
BILLION

DAMAGE
CAUSED
GLOBALLY
BY NATURAL
DISASTERS
IN 2018



DIGITAL TRANSFORMATION

TECHNOLOGY, DATA
AND INGENUITY
ARE RESHAPING
THE FUTURE OF WATER



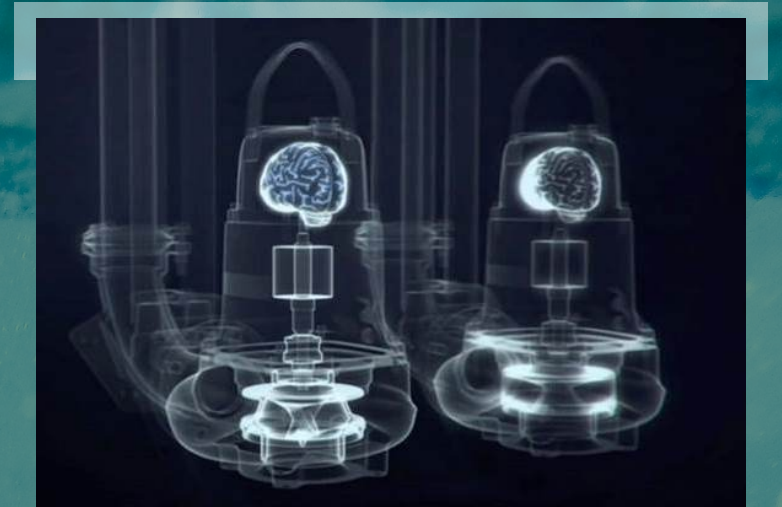
INTELLIGENT EQUIPMENT



SMART NETWORKS



ADVANCED DATA ANALYTICS



A large glass of water is the central focus, with a cityscape and a house visible inside, symbolizing digital solutions in water management. The text is overlaid on the right side of the glass.

Digital solutions
Leverage **power of data**

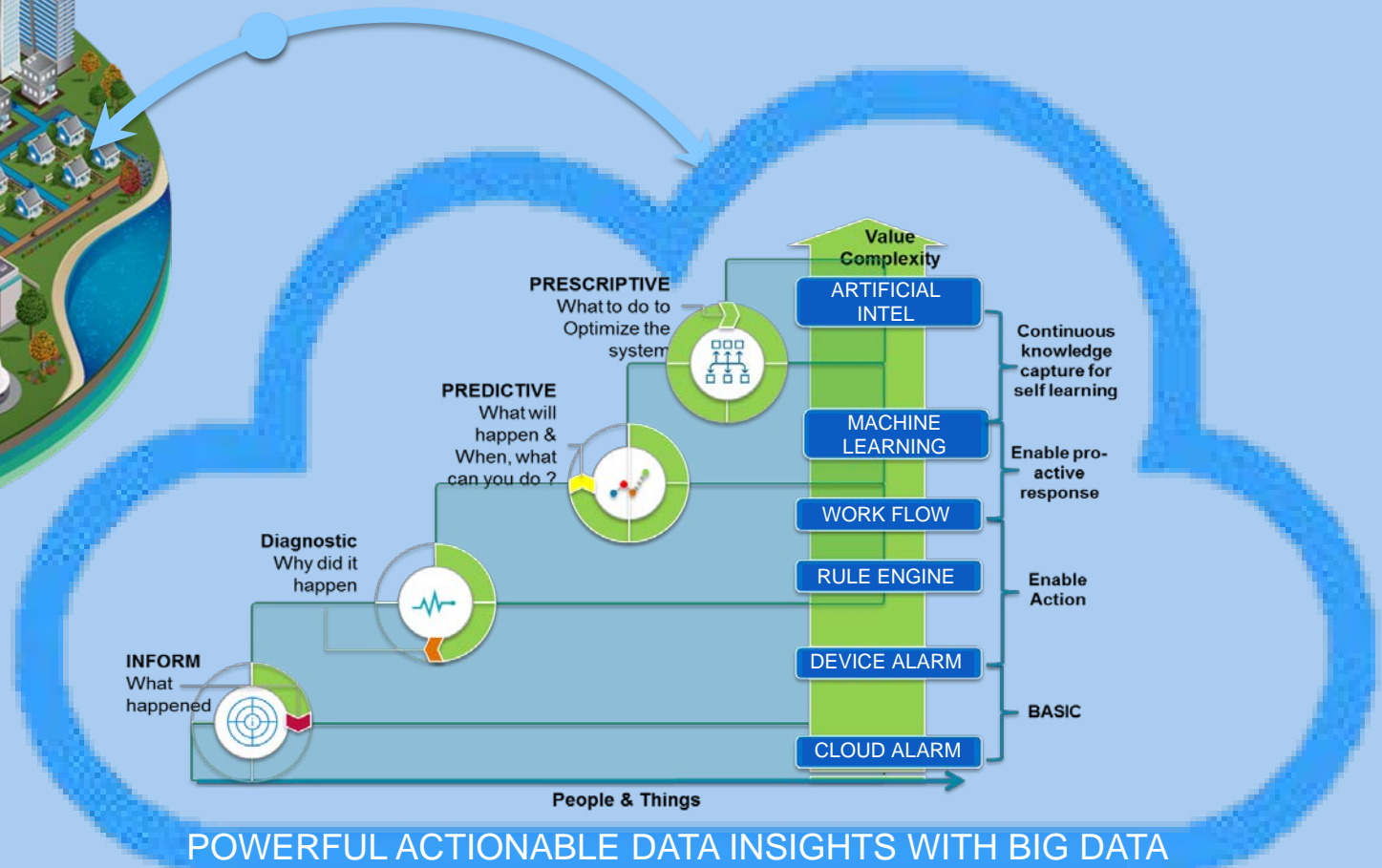
to create a **new information**
for making **better system-level**
choices and recommendations

DIGITALIZATION IS A KEY ENABLER FOR ADDRESSING WATERSHED CHALLENGES HOLISTICALLY

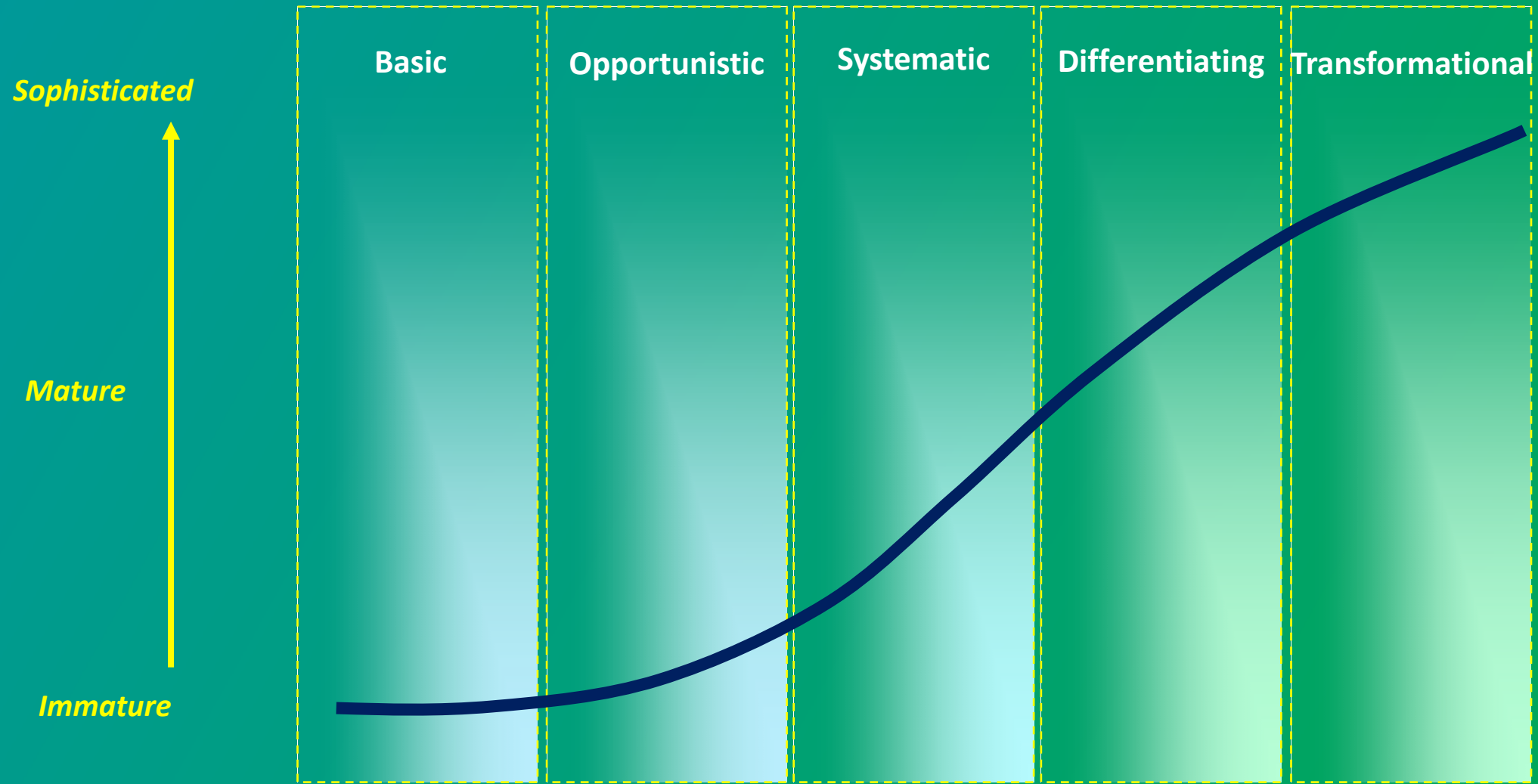


- Greater temporal, spatial, and parametric data density
- Increasing interoperability of applications
- Shift from situational awareness to decision support

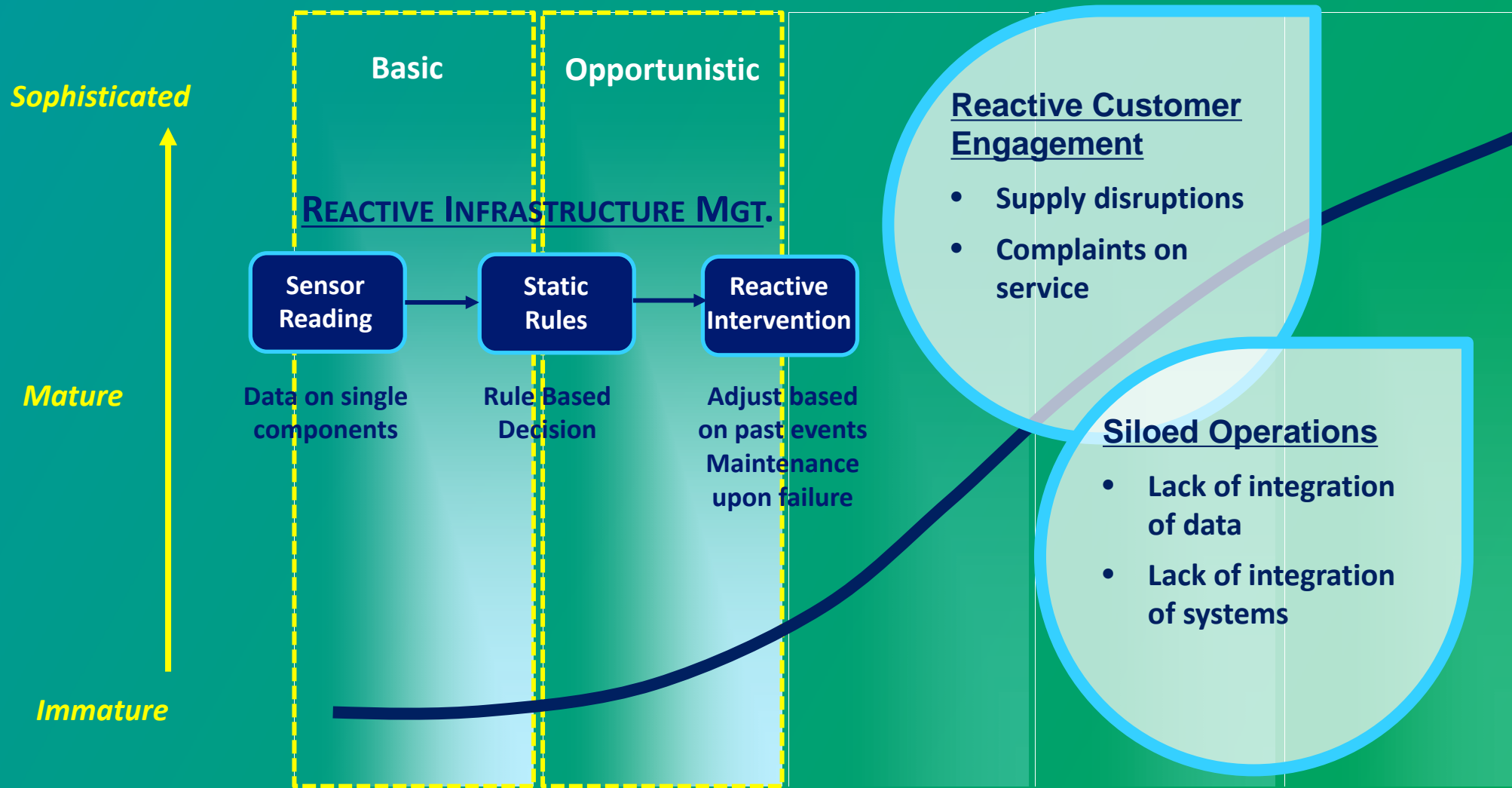
- Integration of external data such as weather and GIS (Geographic Information Systems) is necessary



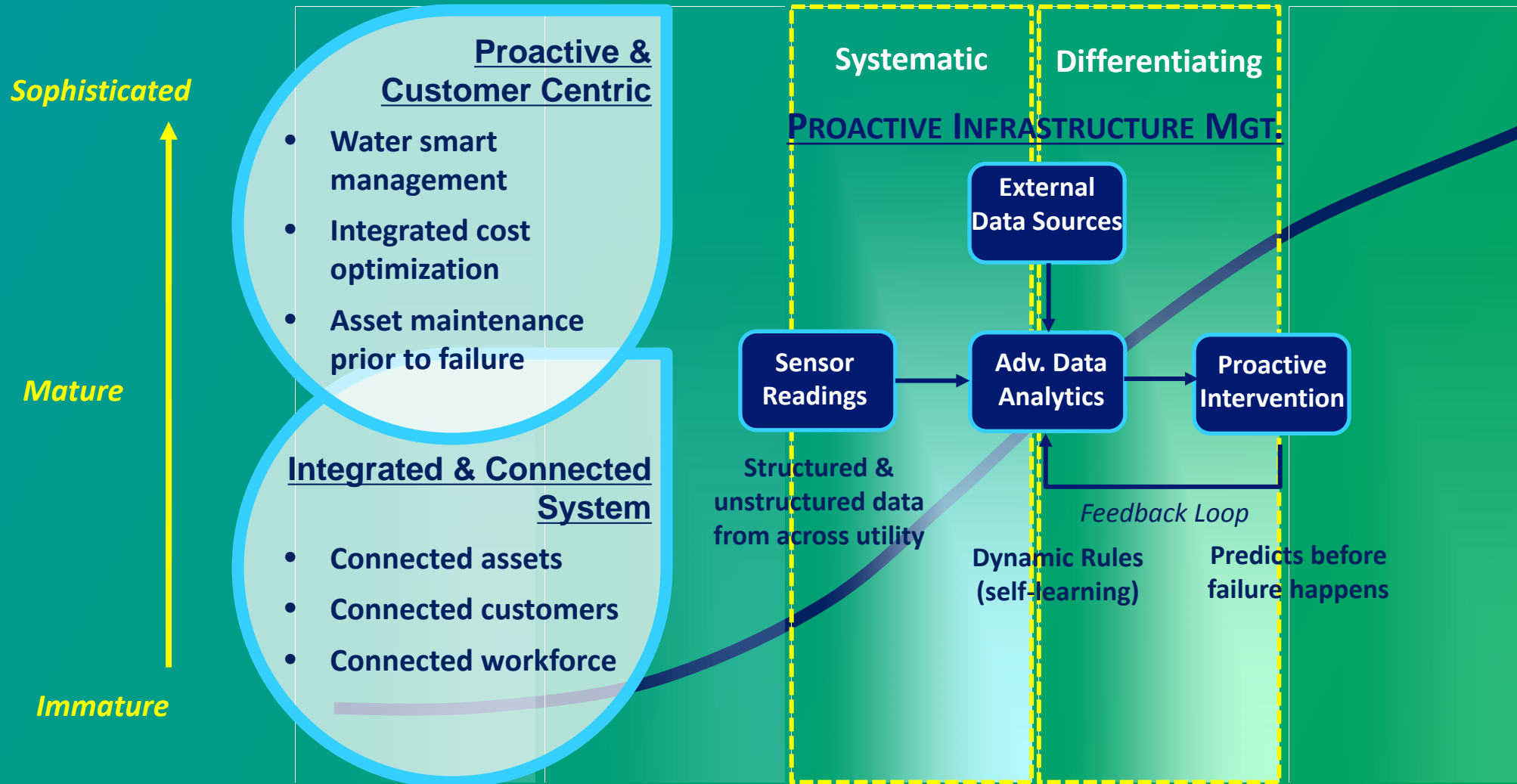
WHERE ARE YOU ON THE DIGITAL MATURITY CURVE?



WHERE ARE YOU ON THE DIGITAL MATURITY CURVE?



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WHERE ARE YOU ON THE DIGITAL MATURITY CURVE?

Sophisticated



Mature

Immature



Digital Water

Industry leaders chart the transformation journey

Shared Best Practices:

1. Set the ambition at the CEO and Board level
2. Build an innovation culture
3. Collaborate with utility peers

Wastewater – Combined Sewer Overflow SOUTH BEND, INDIANA

CHALLENGE

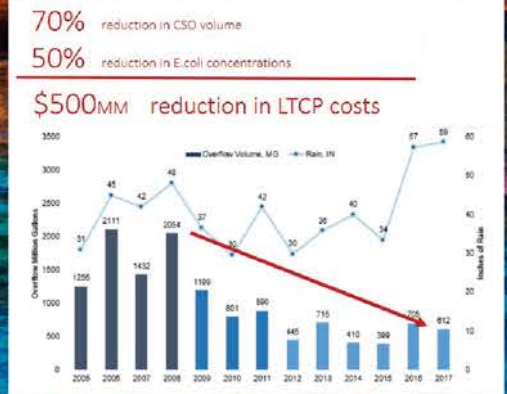
Reduce combined sewer overflows into the St. Joe River

SOLUTION

Digital water platform combines real-time sensor and weather data and AI to control sewer operation.

RESULTS

Overflow volume down **70%**
or close to **4 billion liters**
a year.
City saved **€500 million**.



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XYLEM

FORTUNE CHANGE THE WORLD

xylem
Let's Solve Water

Non-Revenue Water – Real Losses

PARK CITY, UTAH

CHALLENGE

Low rainfall and increased demand meant the city needed to maximize its water supply – and reduce lost water.

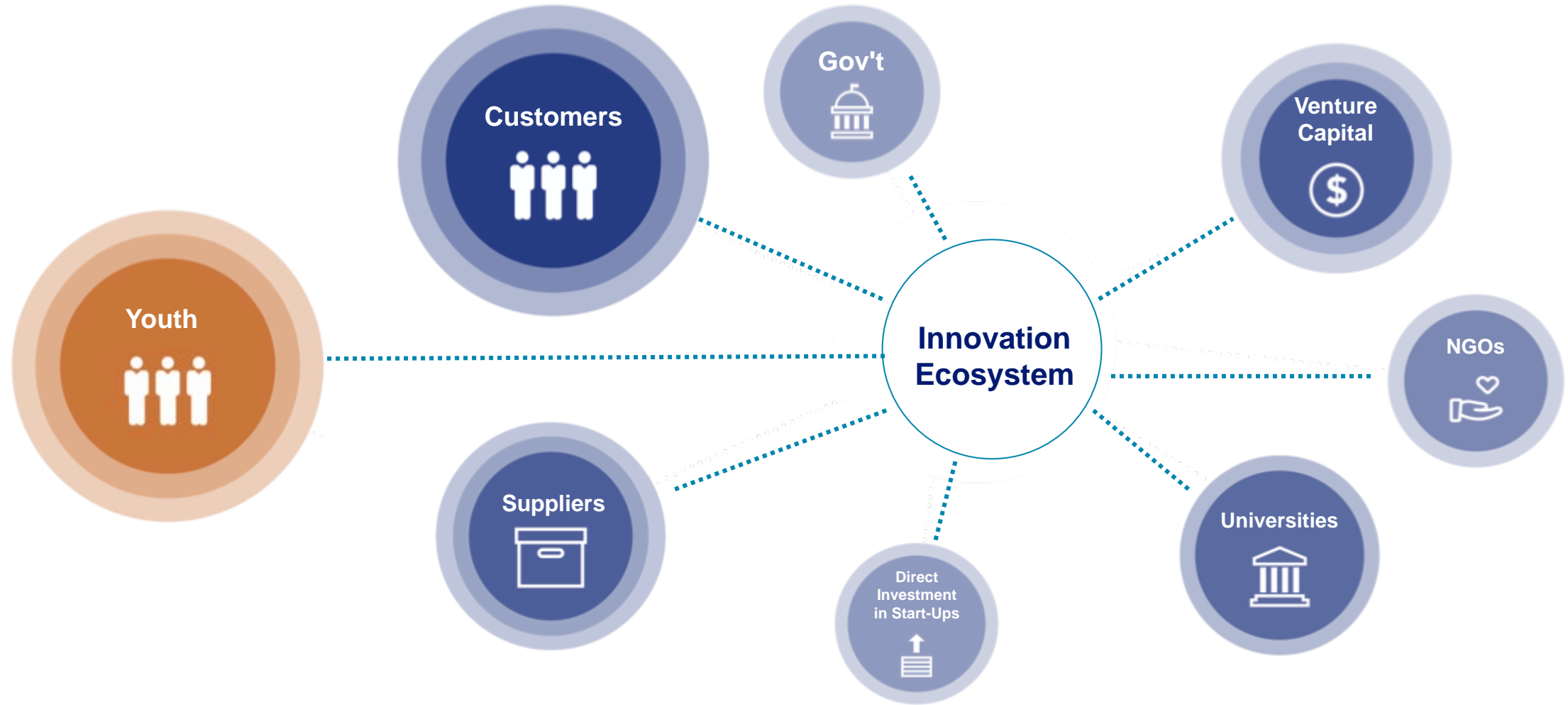
SOLUTION

The city used leak detection, including digital technology, and pressure monitoring systems to identify leaks and help predict leaks and infrastructure flaws.

RESULTS

Water losses cut by 10%.
Savings expected to offset cost of solution in **under 3 years.**

THE WATER SECTOR MUST WORK TOGETHER TO IDENTIFY AND ACCELERATE ADOPTION OF DIGITAL SOLUTIONS





Let's Solve Water