



GWI Madrid  
17 May 2022

How are digital tools helping  
utilities prioritize and improve  
investment decisions?



# Agenda

1. Safety Moment
2. The Challenge
3. Stantec Insight Analytics
4. Case Study
5. Other Examples
6. Discussion

# Safety Moment

Ecological Footprint





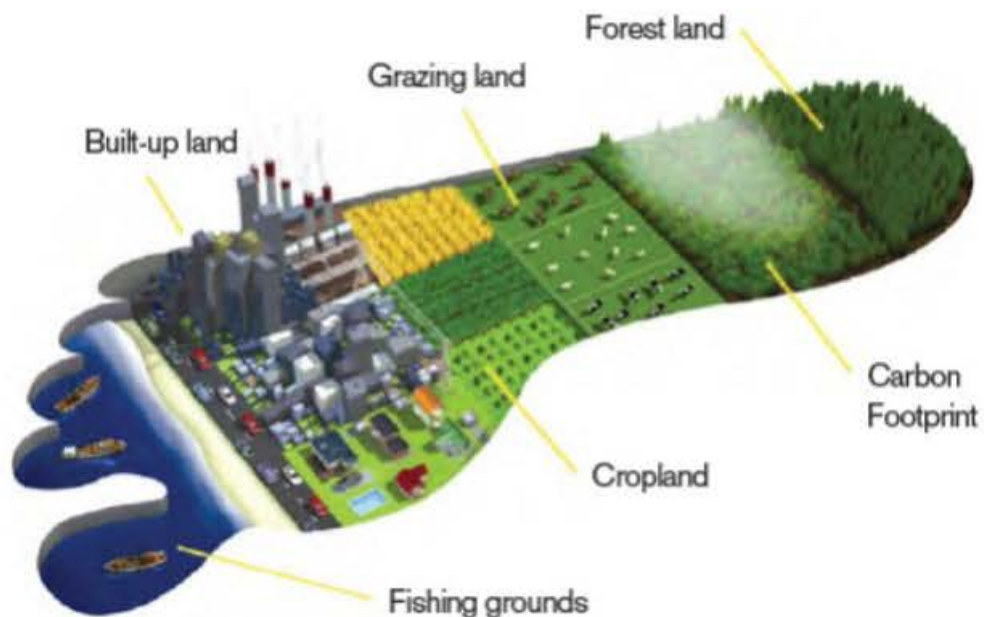
# Stop & Talk: Ecological Footprint

Health, Safety, Security, & Environment

SaferTogether

## What does the Ecological Footprint measure?

The Ecological Footprint measures an individual or a population's demand for plant-based food and fiber products, livestock and fish products, timber and other forest products, space for urban infrastructure, and forest to absorb its carbon dioxide emissions from fossil fuels.



Your personal ecological footprint is the impact of your lifestyle choices or activities measured in terms of the land required to sustain your use of natural resources.

## How can you reduce your ecological footprint?

- Get rid of single-use plastic
- Consider renewable energy
- Conserve energy
- Eat less meat, and more plant-based foods
- Drive less and travel sustainably
- Use less water
- Buy local
- Buy used goods
- Recycle whenever you can
- Reduce your waste
- Repair instead of replace

What to know what your ecological footprint is?  
Go to [Ecological Footprint Calculator](#)

Information provided by [11 Simple Ways to Reduce Your Ecological Footprint - Get Green Now \(get-green-now.com\)](#) and [FAQ - Global Footprint Network](#); picture provided by [overshootday.org](#)

If you have questions, please contact your supervisor, [Office Safety and Environment Coordinator \(OSEC\)](#), or local HSSE representative

HSSE Stop & Talk are written for educational purposes and are not intended to replace safe work practices or procedures.



## The Challenge

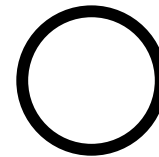
How are digital tools helping utilities prioritize and improve investment decisions?



Do you *really* understand your asset base?



Data quality & connectivity



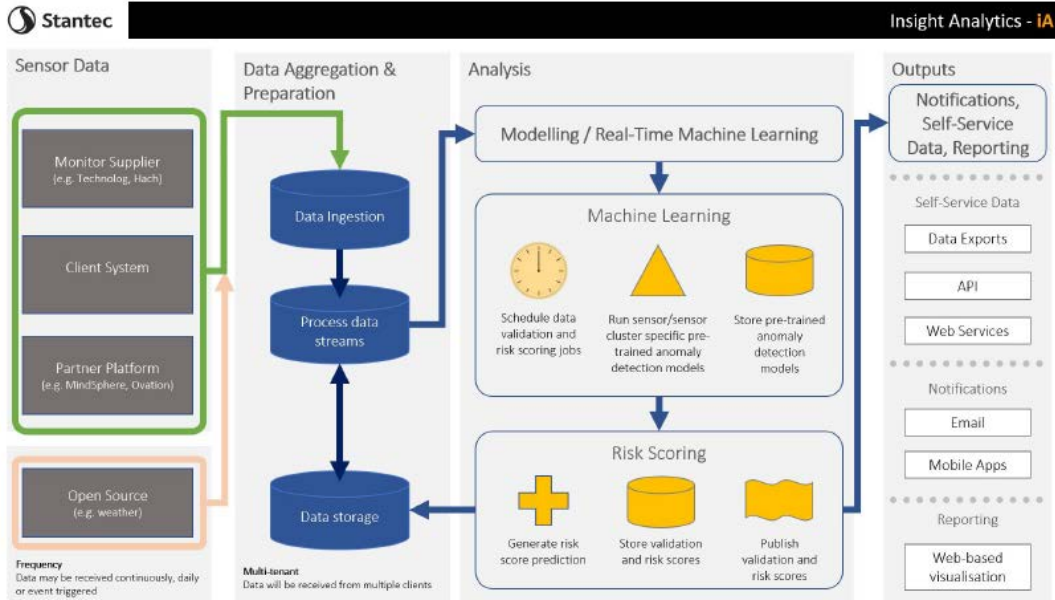
Drive to Net Zero



Collaborative planning

# Capital planning – with the lights on

SiA is a service agnostic to the client's IT infrastructure  
We promote open, and secure, information exchange between our client's systems



## Benefits of SiA

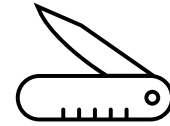
This is a system-based tool that processes a broad spectrum of data including asset telemetry and environmental data in real time enabling:

- Real time event notification
- Cause of event diagnosis
- Asset deterioration detection
- Performance reporting
- Support to longer term investment planning and decision making
- Machine learning to characterise system performance





# Monitoring Assets leading to Improved Performance



Deploy Tools



Visualize the real issue



Collaborative planning





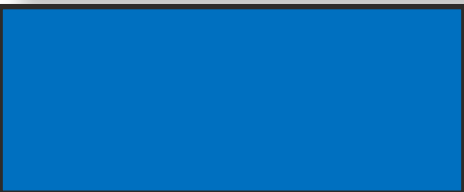
# EDM Analytics Dashboard

2019

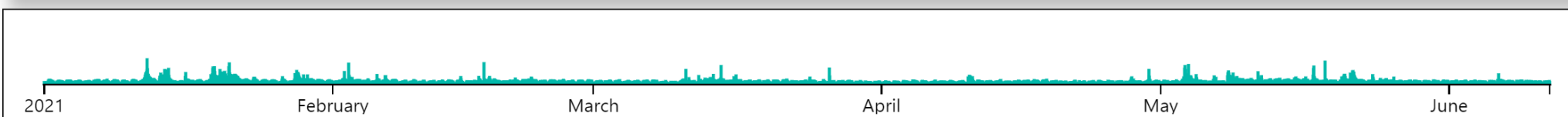
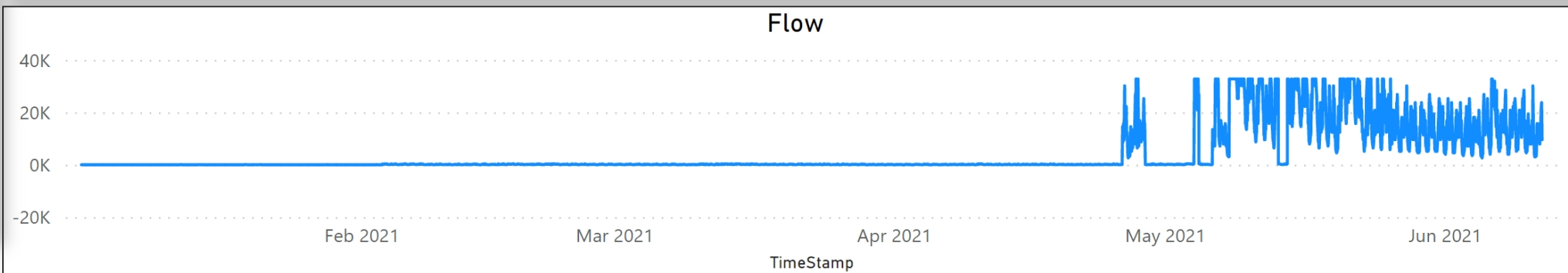
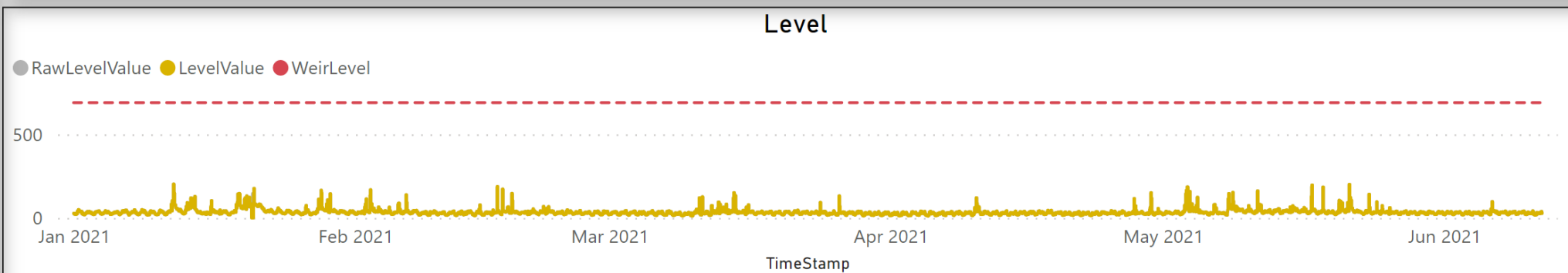
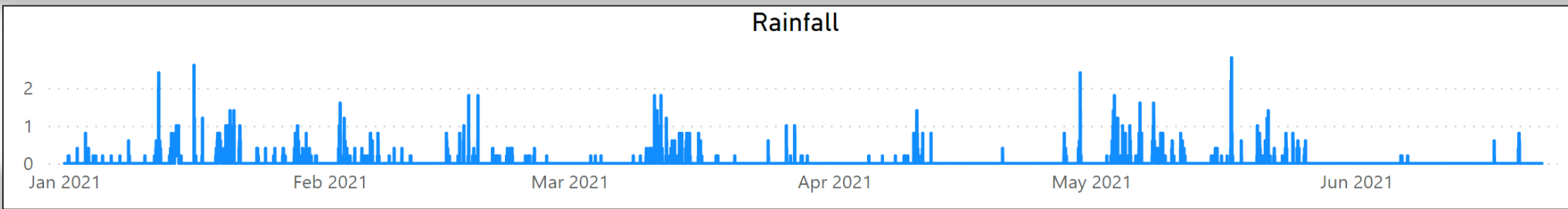
2020

2021

PermitNumber	ActivityRef	RecordYear	DurationHours	% Available	SpillsYTD	FilteredSpills	ManualDL	RiverIngress	ComplexSite	Re-Located	InfraArea	NonInfraArea	EDMCat	ActTimeStep
T/01/36215/O	Single Discharge	2020		99.75%			0	0	0	0			B	15

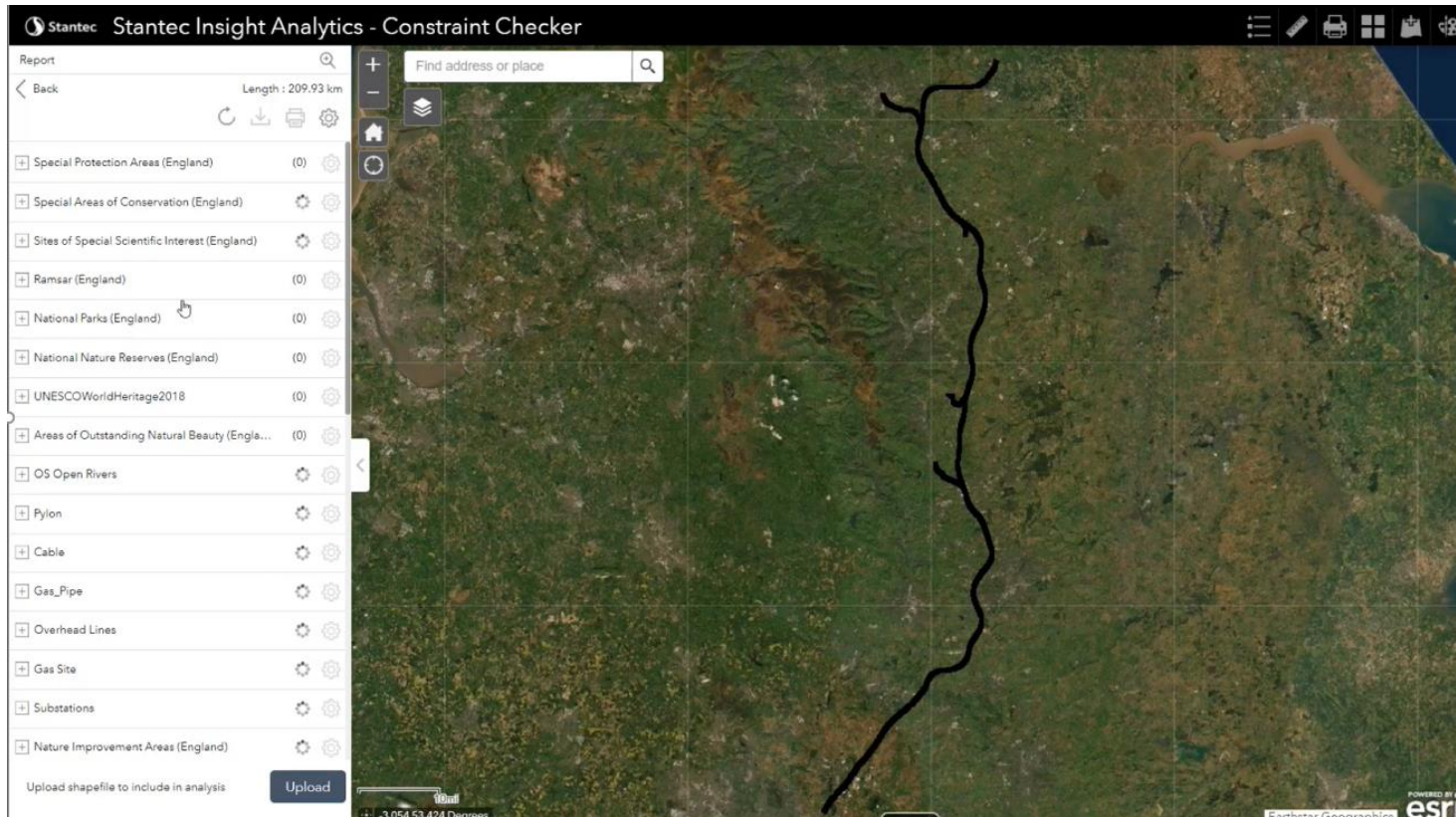


Floc2Description



ReportingYear  | NumberOfSpills

# The way forward – in minutes



- Drag and Drop
- Generate reports
- Identify constraints
- Drive down carbon
- Investment certainty

# How can data focus your investment?

- Do you have the right data?
- Can you get right data?
- Is it correct?
- What will it tell you?
- Make the right choice



We would love to hear your thoughts..

- Please scan the QR code using your smartphone
- Short survey – 6 Qs, approx. 4 mins to complete
- Thank you!



[Link to MS Forms survey](#)



Without change there is no innovation, *creativity*, or incentive for improvement. Those who initiate change will have a better opportunity to manage the change that is inevitable.

William Pollard

