

IBM Sustainability Software

The role of ICT in Sustainability

—
Ralf Bucksch

Technical Executive, Sustainability Software
and Industrie 4.0 EMEA, IBM

IBM Sustainability Software



IBM has been a recognized leader for nearly 50 years



IBM was named to the TIME100 Most Influential Companies of 2022 list for its environmental capabilities



IBM and its ecosystem of partners can help across all aspects of the sustainability framework





**IBMs unique position
supporting the sustainability
transition, based on
IBMs 100 year expertise**



IBM Sustainability Portfolio: Technology & Consulting

IBM Consulting and Ecosystem Partners

*Strategy, experience,
technology, and
managed services*

Sustainability Strategy and Roadmap

Garage for Sustainability (co-creation)
Sustainability strategic advisory services

ESG Data, Reporting and Risk Management

Envizi ESG Suite
Environmental Intelligence Suite
Planning Analytics | OpenPages



Intelligent assets, facilities and infrastructure

Maximo
TRIRIGA

20%–30% Increased productivity



Responsible computing and green IT

Turbonomic
z16 | LinuxONE | Power | Storage
IBM Cloud
30% Reduced cloud /data center
energy consumption



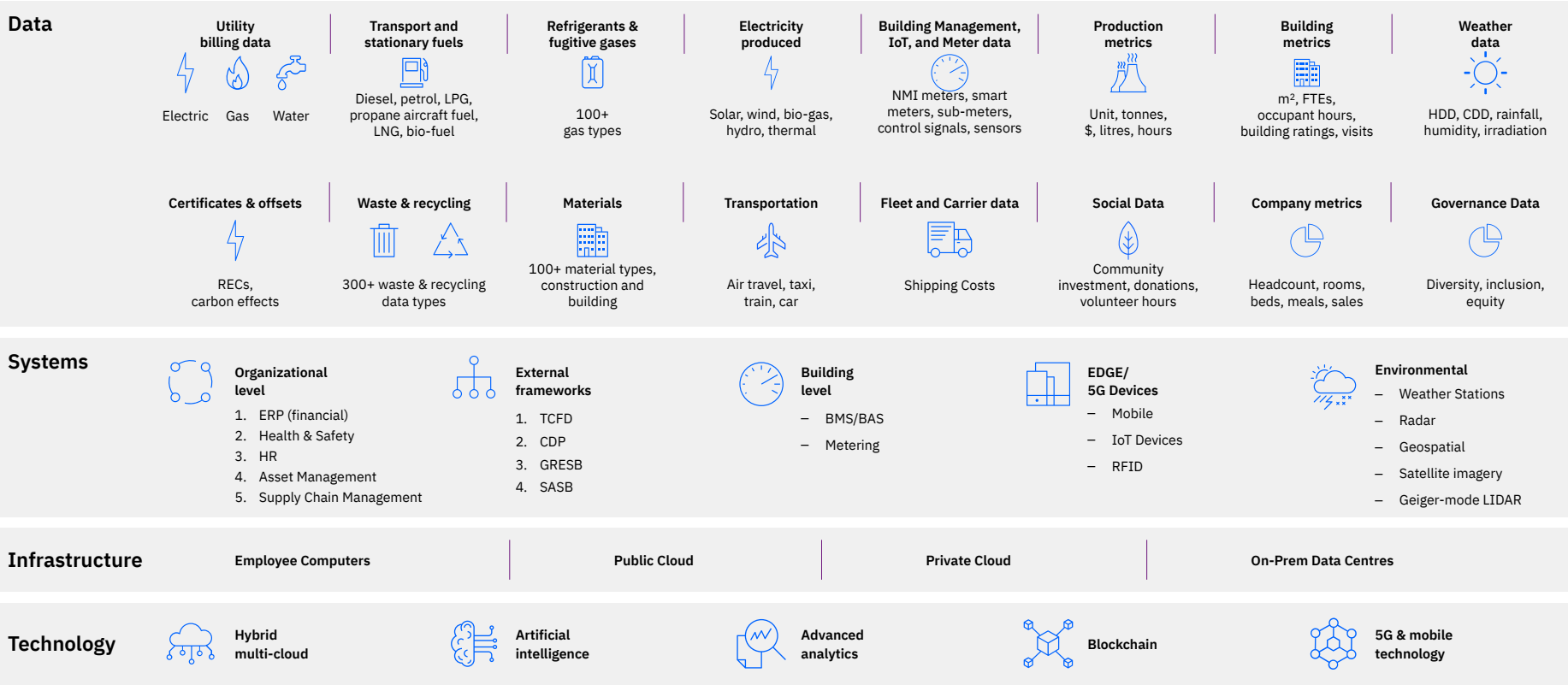
Sustainable supply chains and circularity

Supply Chain Intelligence Suite
Sterling Order Management

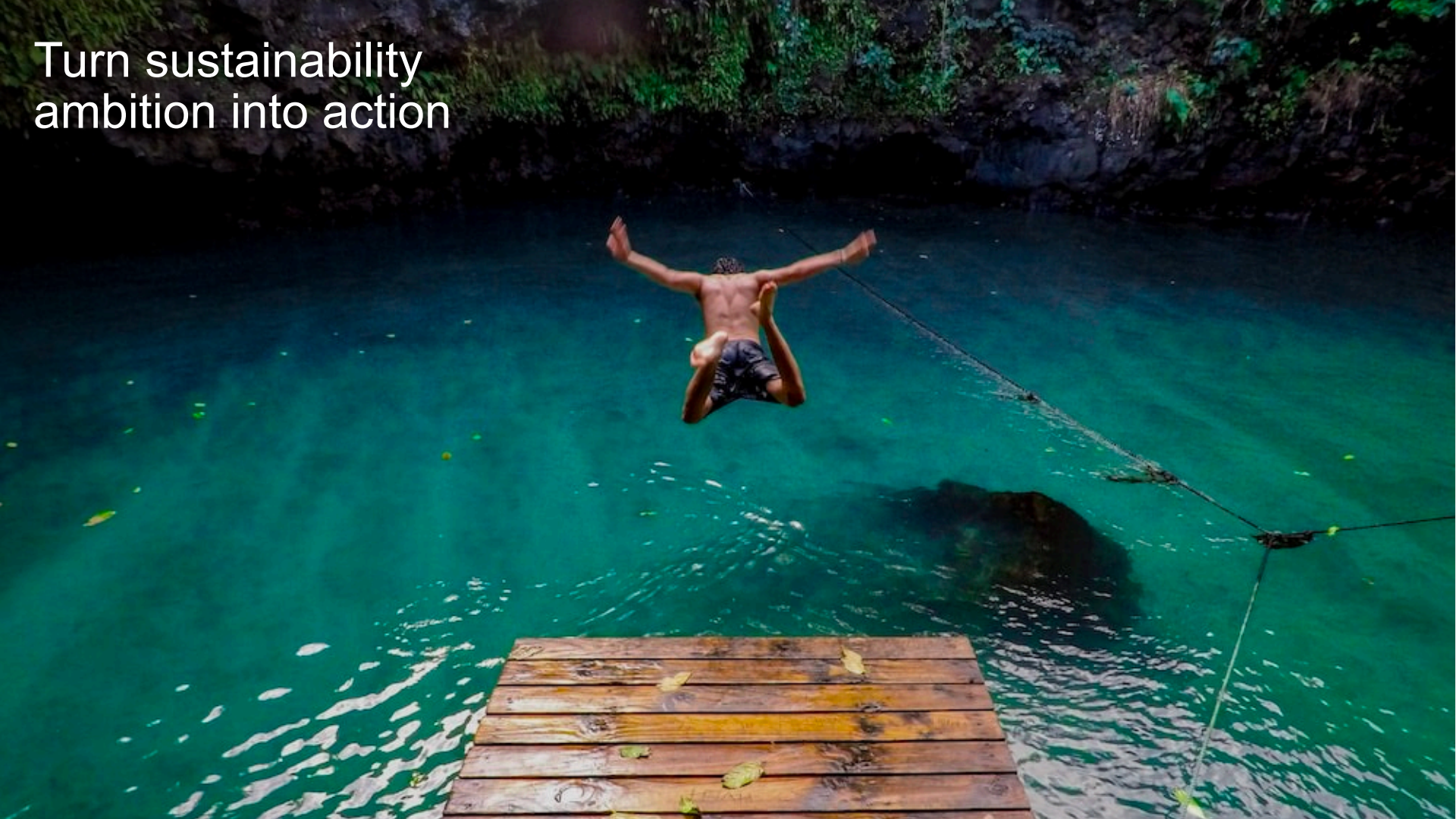
52% Reduction in expedited freight costs

IBM Technology and Ecosystem Partners

How are you capturing, consolidating, and analysing your sustainability data?



Turn sustainability
ambition into action



IBM

One of world's largest technology solution providers



Challenges

The IBM Global Real Estate team is responsible for 50M sq. ft. of space in 800 locations and 100 countries. With such a large footprint, IBM GRE looks to reduce GHG emissions, water consumption and waste, in addition to tracking and reporting progress toward sustainability goals.

However, data was siloed, and the team relied on many disparate tools, restricting their ability to have an enterprise-view of facilities.



Solution

IBM GRE used Envizi to help to collect, manage and report on their sustainability performance.

Envizi helped to consolidate sustainability data including data from TRIRIGA and Maximo into a single, auditable system of record.

IBM's subsequent decision to acquire Envizi is a strong vote of confidence in the capability of the software.



Benefits

- Reduced sustainability reporting costs by 30% by replacing multiple tools with a single, automated platform
- Used insights from operational data to drive emissions reduction of 61.6% in 2022
- Eliminated data silos. Team can respond quickly to requests as information is accessible through centralized single system of record.



"When it comes to timely and accurate sustainability reporting, having a consistent base of data—a 'single source of truth' underlying all facilities and assets—is an absolute prerequisite."

Jane Muir-Sands
Vice President Global Real Estate and Operations, IBM

Downer

Largest Australian Rail
vehicle manufacturer



Challenges

[Governments] don't want us to just design and build the trains, they want us to package in through-life support—effectively all of the maintenance work for the trains across a span of usually 25–30 years.

Adam Williams

Head of Growth, Rail and Transit
Systems, Downer Group



Solution

Downer now coordinates with [IBM Consulting™](#) for the ongoing development and enhancement of TrainDNA. And this platform, currently powered by the [IBM® Maximo® Application Suite](#), harnesses complex analytics and near real-time data to support predictive maintenance efforts for more than 200 trains across Australia.



Benefits

Reduced equipment malfunction, netting an increase in train reliability by 51%.

Process asset data contained in more than 30 Million messages every hour.

Doubled the number of maintenance throughput, whilst improving efficiency by 20%.



Thank you!



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