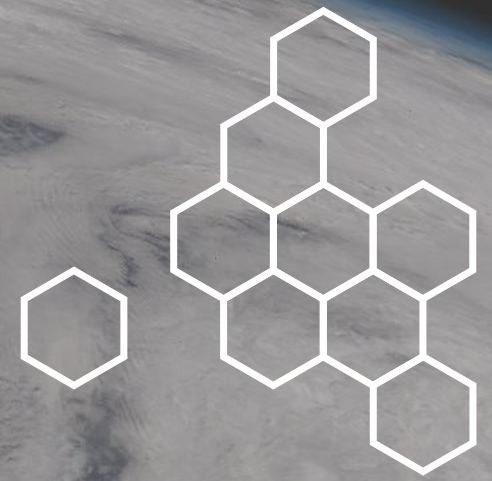
2019 Just transition summit

Using technology for good - together

How can we use technology in more innovative and collaborative ways to enable transition to a low emissions economy?



Russell Craig
National Technology Officer, Microsoft New Zealand

Microsoft

Humans face unprecedented challenges, from mitigating climate change and ensuring resilient water supplies, to feeding a growing population and stemming a catastrophic loss of biodiversity.

New Zealand needs to transition to a low carbon economy **while also** developing new economic opportunities, enhancing wellbeing and protecting the environment.

Digital technologies – including Artificial Intelligence (AI) and the Internet of Things (IoT) - can help us chart a better future.

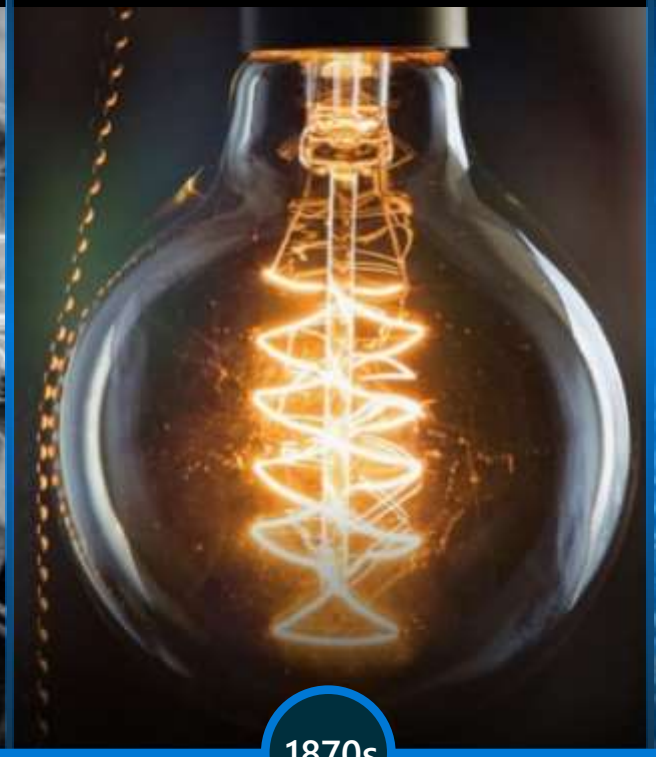

Good news!
We’ve been here before.
The challenges are not new.

Digitalisation has sparked a 4th Industrial Revolution

Steam, water, mechanical equipment

1780s

Electricity, division of labor, mass production



1870s

Electronics, IT, automation

1970s

Blurring the physical and digital divide

2015+

We've known digital has profound effects for quite a while

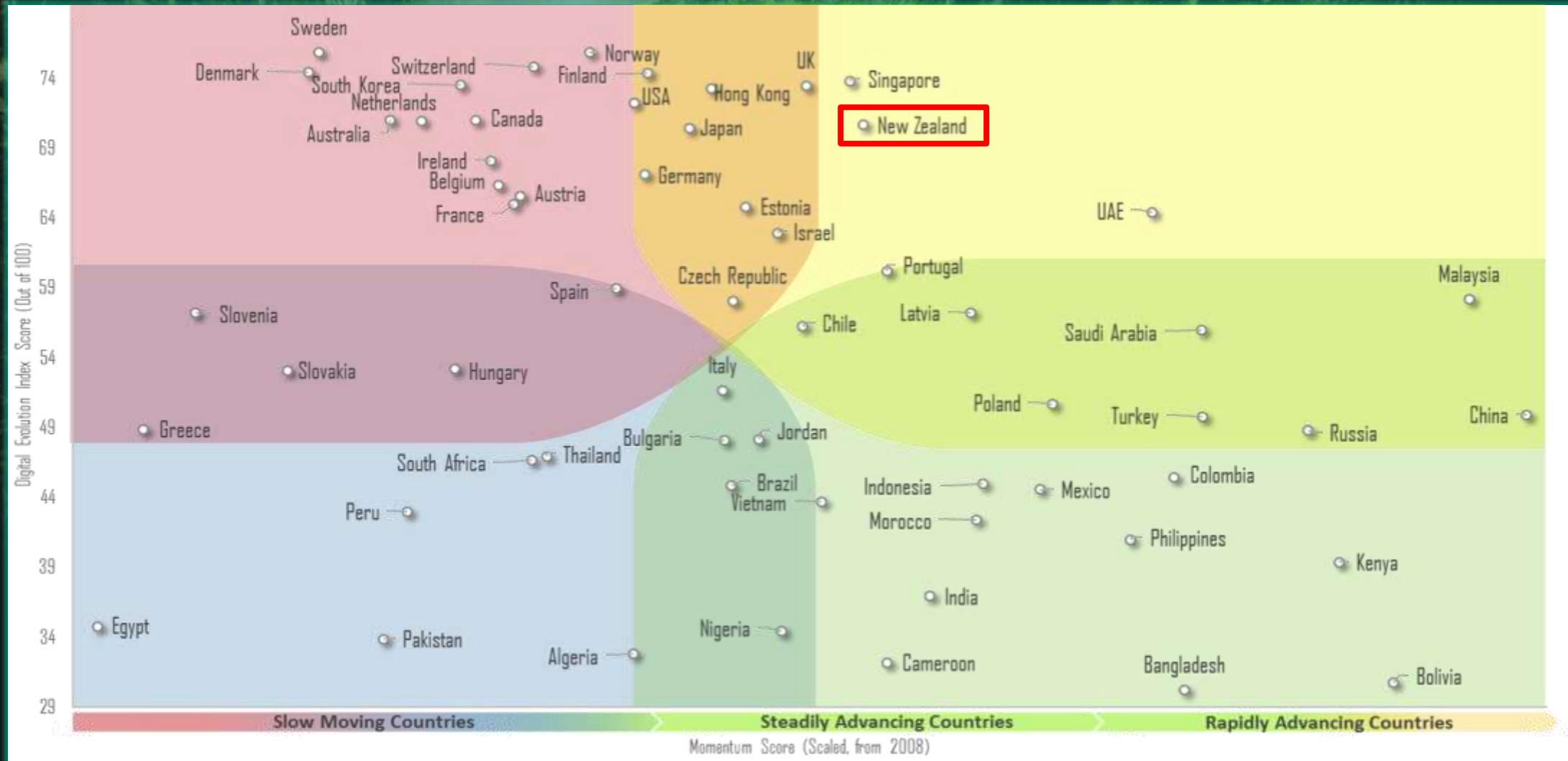
Catching the Knowledge Wave Conference 2001

"The five theme groups have produced a host of recommendations in the areas of people and capability, innovation and creativity, entrepreneurship, sustainable economic strategies, and social cohesion and the knowledge divide."

The Internet - Freezer Ship of the 21st Century Economy

Microsoft

In less than 20 years we've become a leading digital nation



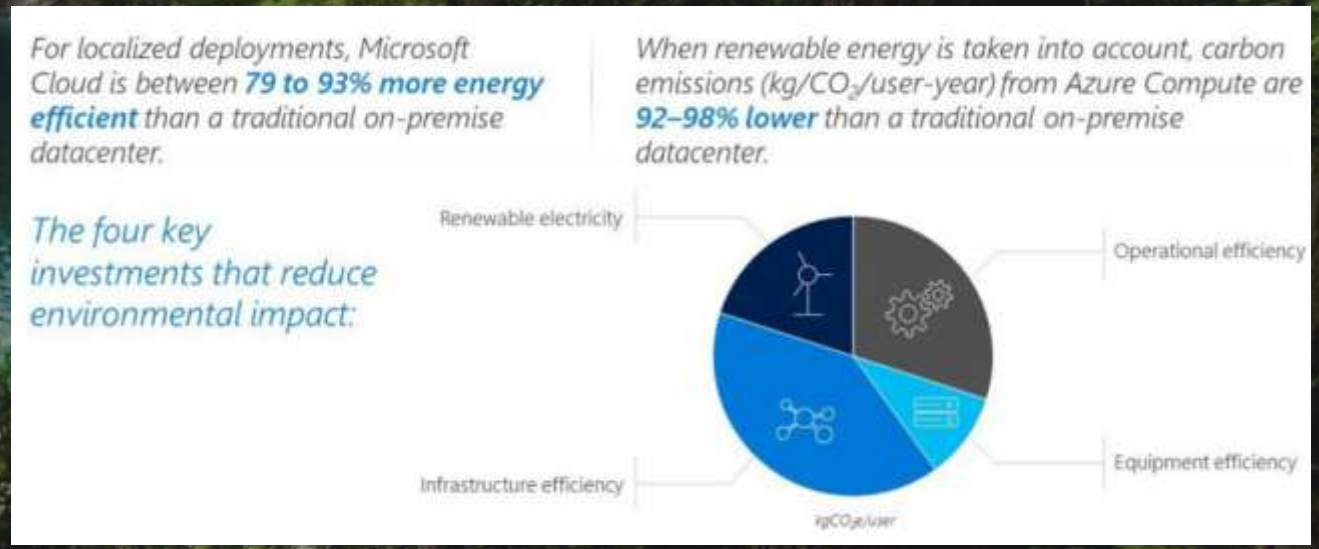
INSTITUTE FOR BUSINESS IN THE GLOBAL CONTEXT | The Fletcher School

How can digital help NZ transition?

Too many ways to share today!

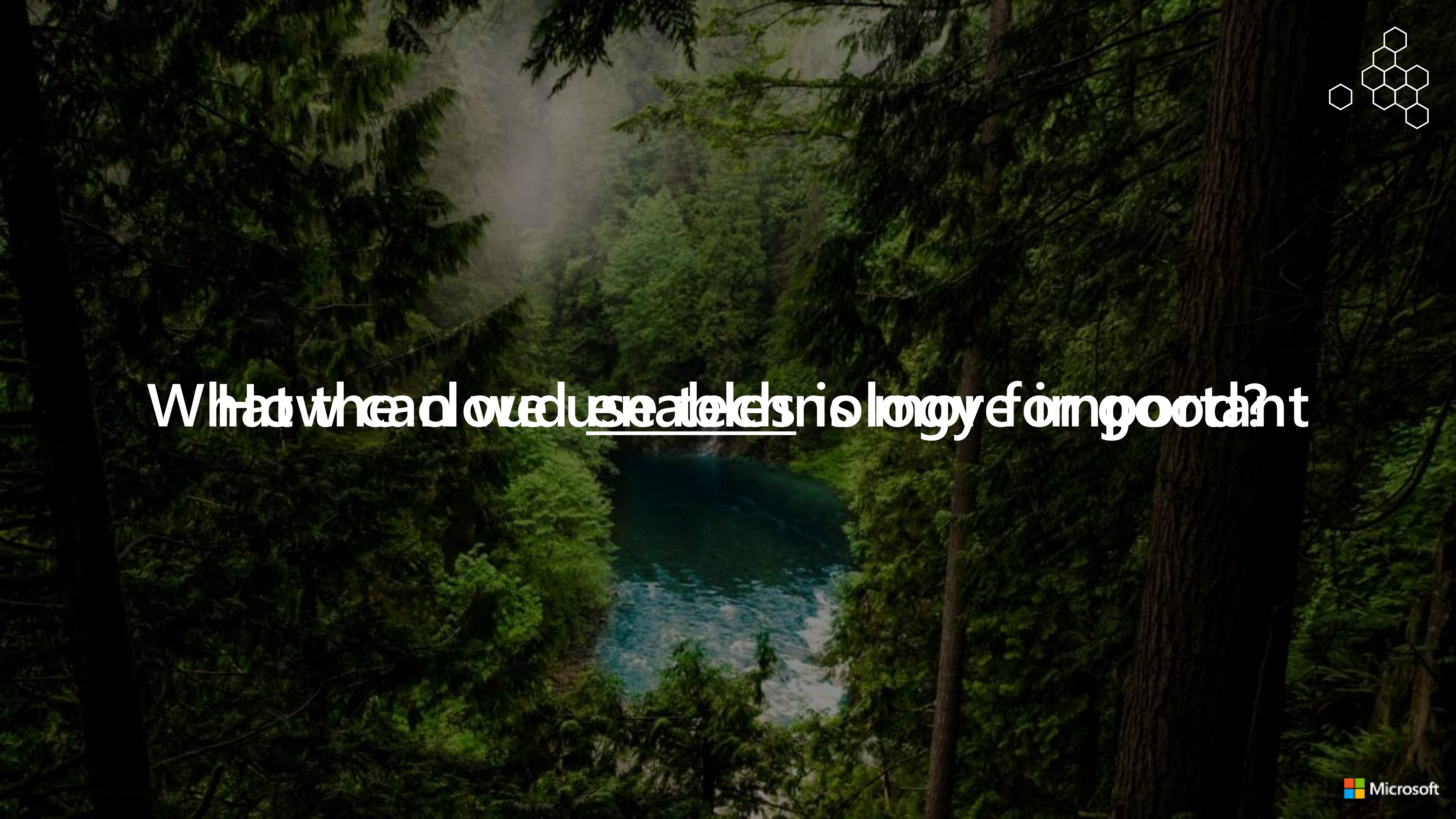
Start with the fundamentals.

A 2018 study finds that the Microsoft cloud is as much as 93% more energy efficient and as much as 98% more carbon efficient than on-premises solutions.



https://tinyurl.com/yazqluus

Microsoft

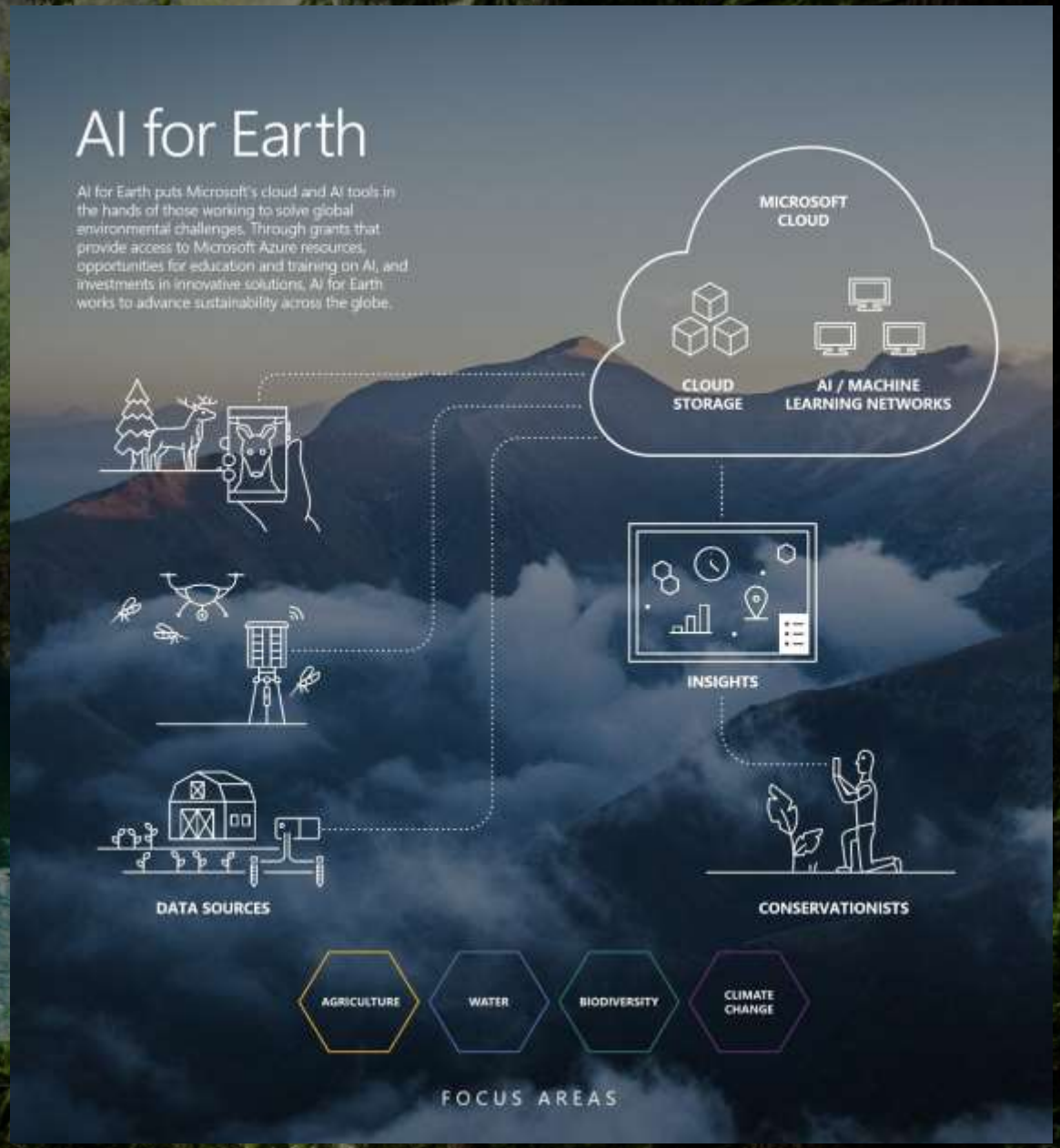


How do we use technology for good?

Microsoft

AI for Earth

empowering people and organizations to solve global environmental challenges through technological innovation



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Focus areas

AI for Earth is focused on four areas that are vital in building a sustainable future:

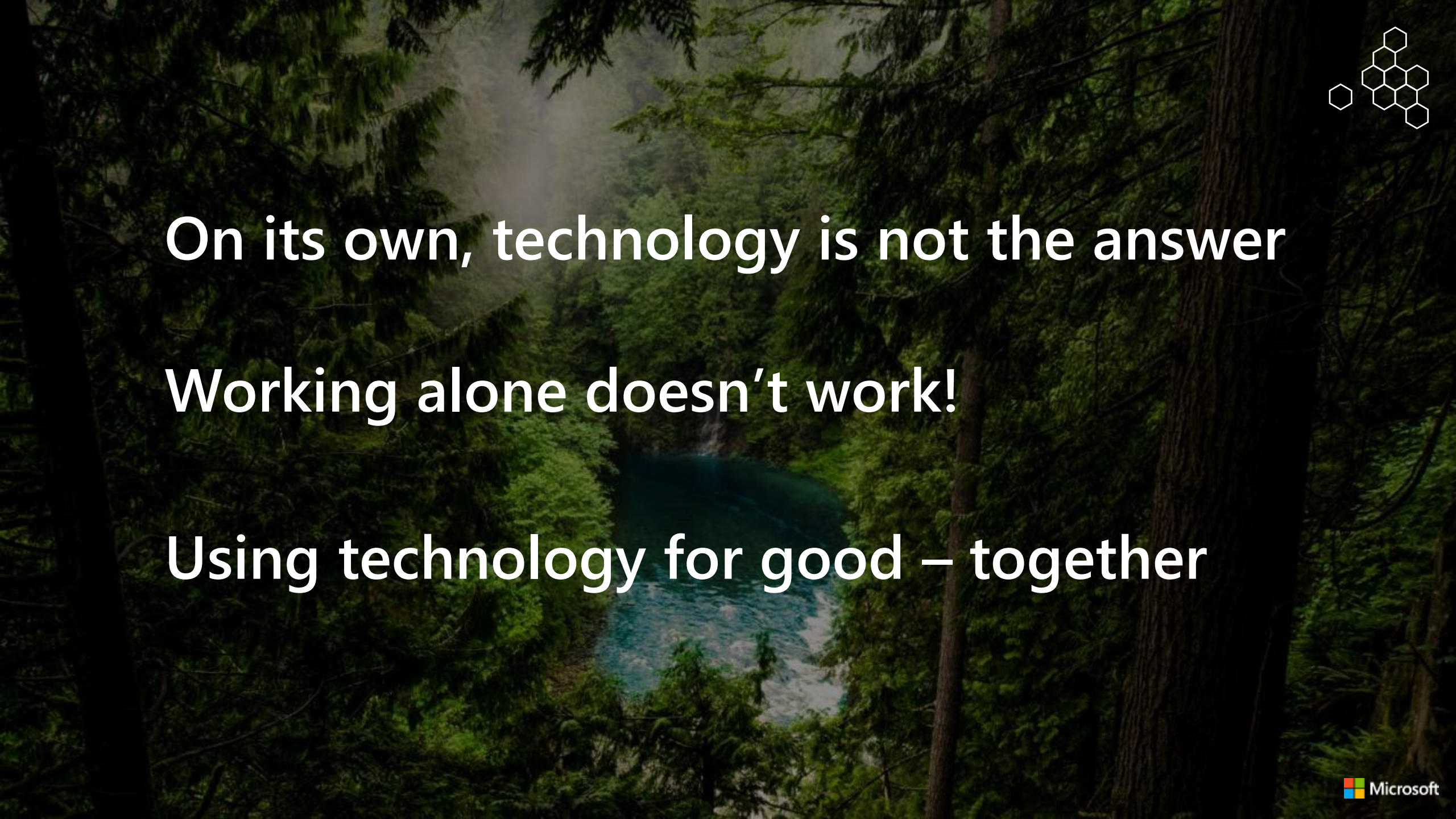
Feed the growing world population

Conserve and protect water sources

Monitor and protect species from extinction

Reduce climate change impact on communities

https://**www.microsoft.com**/en-us/**ai/ai-for-earth**


On its own, technology is not the answer
Working alone doesn’t work!
Using technology for good – together

Using Technology for Good - Together

THE PRIMARY INDUSTRIES AND REGIONAL INNOVATION COLLABORATIVE

We believe...

In the potential for science and technologies to contribute to the well-being of humanity.

To build a sustainable future for New Zealand we need to accelerate the adoption of digital technologies into our Primary Industries and Regional Economies, and can no longer act as individuals or organizations working alone.

PIRIC

Grounded in the UN Sustainable Development Goals

the collaborative

Microsoft

MASSEY UNIVERSITY
TE KUNENGA KI PŪREHUROA
UNIVERSITY OF NEW ZEALAND

kordia

scion

THE FACTORY

Our focus

As the Primary Industries and Regional Innovation Collaborative (PIRIC) we focus on strengthening New Zealand's regional economies by:

INNOVATIVE INDUSTRIES

Accelerating the Digital Transformation of New Zealand's agriculture, food processing, forestry, horticulture and seafood sectors.

SUSTAINABLE COMMUNITIES

Helping build sustainable and connected communities that have the confidence, skills and ability to participate in the digital world.

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PIRIC

WORKING ALONE…DOESN'T WORK!

WE BELIEVE IN THE POWER OF "COLLABORATIVE INNOVATION"

"There is a need for alignment of vision and intent, and cultivation of complex interaction and cooperation, between many parties.

Enabling deliberate, collaborative action – particularly '*collaborative innovation*' – is essential to successfully joining up these parties in the co-creation and execution of new ideas and initiatives."

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PIRIC

Our principles

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THE FACTORY

PIRIC

What is PIRIC?

- PIRIC is an open club – a “voluntary, unincorporated association”, governed by a charter.
- A “do tank”, not a think tank.
- A facilitator and contributor, not a controller.
- A community builder.
- Not important in its own right – only through what it enables.
- Not an accumulator of resources – not allowed a bank account.
- A grand experiment – nothing ventured, nothing gained!

Primary Industries and Regional Innovation Collaborative Charter

Preamble

A. Collaborative Innovation and Sustainable Development

I The 17 global Sustainable Development Goals (SDGs) set by the United Nations in 2015 cover social and economic development issues including poverty, hunger, health, education, climate change, gender equality, water, sanitation, energy, urbanization, environment and social justice.

See https://www.un.org/sustainabledevelopment/sustainable-development-goals/

II In addressing these issues, the UN formally recognized the growing importance of focusing on diversity and inclusion, entrepreneurship and innovation as critical components in addressing the world's social and economic needs.

III Realising the SDGs is not possible through institutions, organisations and people acting alone. There is a need for alignment of vision and intent, and cultivation of complex interaction and cooperation, between many parties. Enabling deliberate, collaborative action – particularly 'collaborative innovation' – is essential to successfully joining up these parties in the co-creation and execution of new ideas and initiatives.

IV Collaborative innovation efforts are best supported by universal principles of openness, fairness, transparency, trust, mutuality and accountability, and benefit significantly from diversity in thought, experience and cultural contexts. In the New Zealand context successful collaborative innovation depends, in particular, on recognizing the value of Māori views, knowledge and innovation practices. Where appropriate, it is acknowledged that these should be incorporated into any cooperative venture that seeks to develop the new knowledge and the new ways of working essential to fostering sustainable economic and social development.

B. Purpose of the Primary Industries and Regional Innovation Collaborative Charter

I With these things in mind, and with an explicit focus on achieving goals associated with the role New Zealand's primary industries play in regional economic and social development and in the environment, the Primary Industries and Regional Innovation Collaborative (“**PIRIC**”) was established, in accordance with the terms of a Memorandum of Understanding between The Collaborative Limited and Microsoft New Zealand Limited dated 22 August 2018 (“**MoU**”).

II The Charter (“**the Charter**”) was established pursuant to the terms of the MoU and will govern the PIRIC and any of its members that wish to engage in activities aligned to the UN SDG's and the Vision, Mission and Goals stated under sections E-G below.

III The Charter establishes PIRIC governance arrangements, sets out the terms and conditions of PIRIC membership, and articulates principles to guide PIRIC activities. These are set out in the annex to the Charter. The PIRIC is a voluntary and unincorporated association, the Charter and MoU does not establish any kind of separate legal entity and, other than where stated to the contrary, is not intended to be legally binding.

Learn more: www.piric.org | Contact us: info@piric.org

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