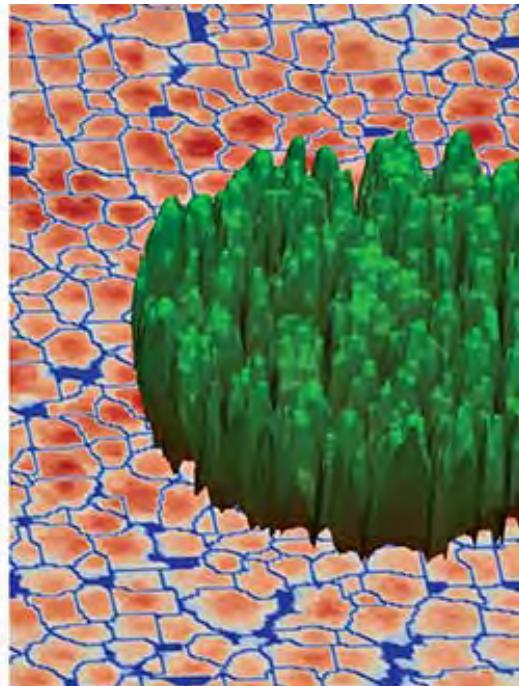
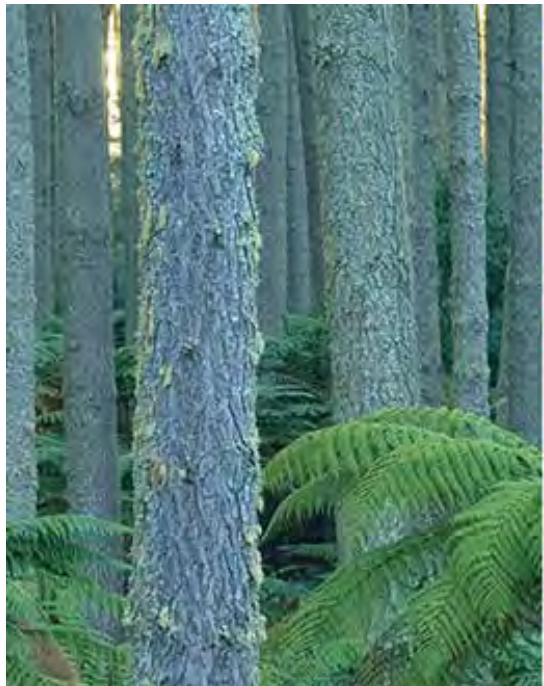
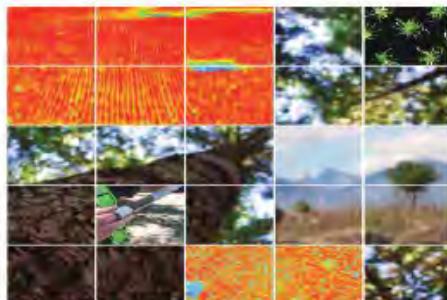


What lies ahead? Planning for future research programmes

Peter Clinton 29 March 2017, Dunedin



New Zealand Forest Growers' 2015 Science and Innovation Plan

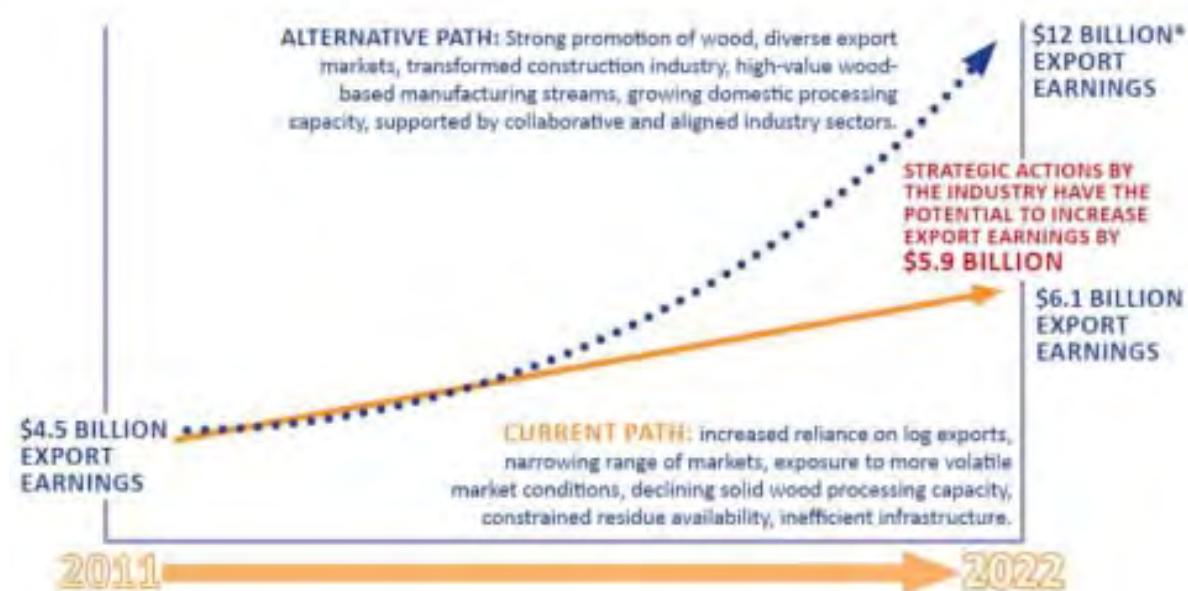


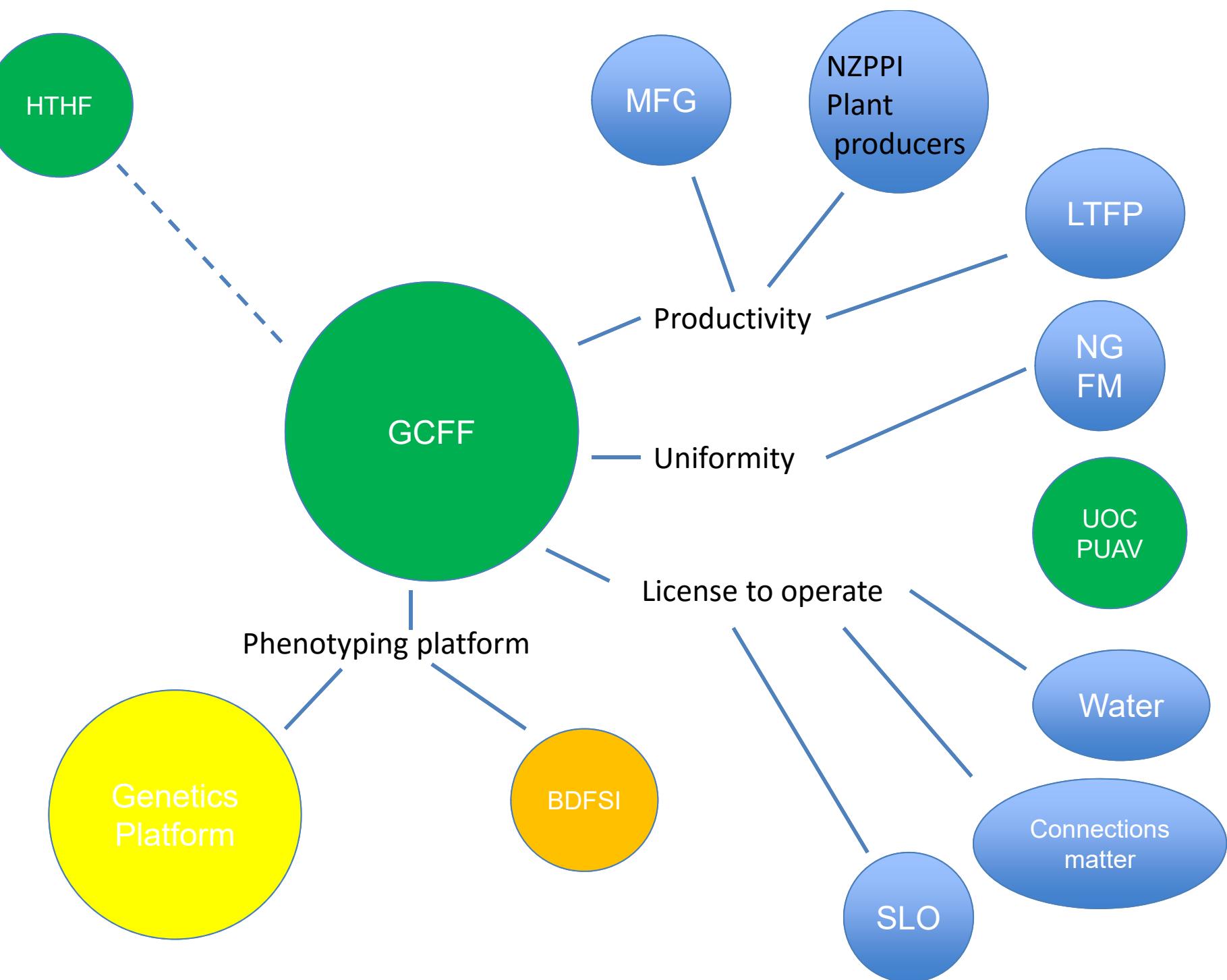
Research and development to increase the profitability and sustainability of the New Zealand forest-growing sector

November 2015

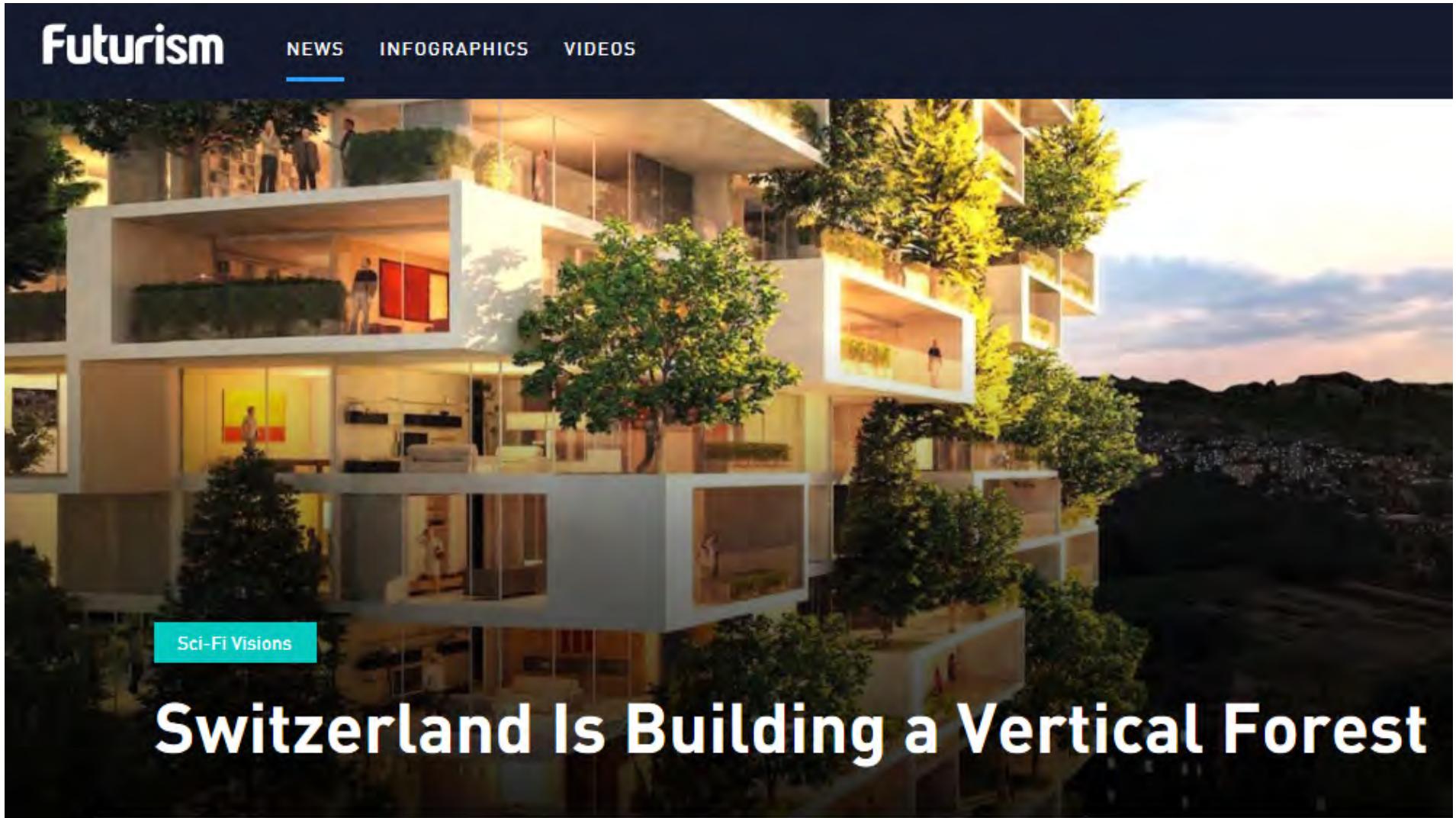


- Protect forest assets and markets from adverse factors
- Improve productivity and uniformity
- Sustain and enhance forestry's license to operate
- Ensure species options for diversity of sites and markets
- Improve efficiency and safety in operations and supply chain logistics





What do we want the future to look like?

A photograph of a modern, multi-story residential building with a unique architectural design. The building features large, cantilevered sections that overhang the balconies, which are densely covered in green plants and small trees. The interior of the building is visible through large windows, showing modern interior spaces with furniture. The building is set against a backdrop of a clear sky with a warm sunset or sunrise glow. In the foreground, there is some dark, out-of-focus vegetation.

Futurism

NEWS INFOGRAPHICS VIDEOS

Sci-Fi Visions

Switzerland Is Building a Vertical Forest

So many things to consider.....





Net zero in New Zealand

Scenarios to achieve domestic emissions neutrality in the second half of the century

Summary report

Report prepared for GLOBE-NZ

March 2017



Cl

(1 of 52)

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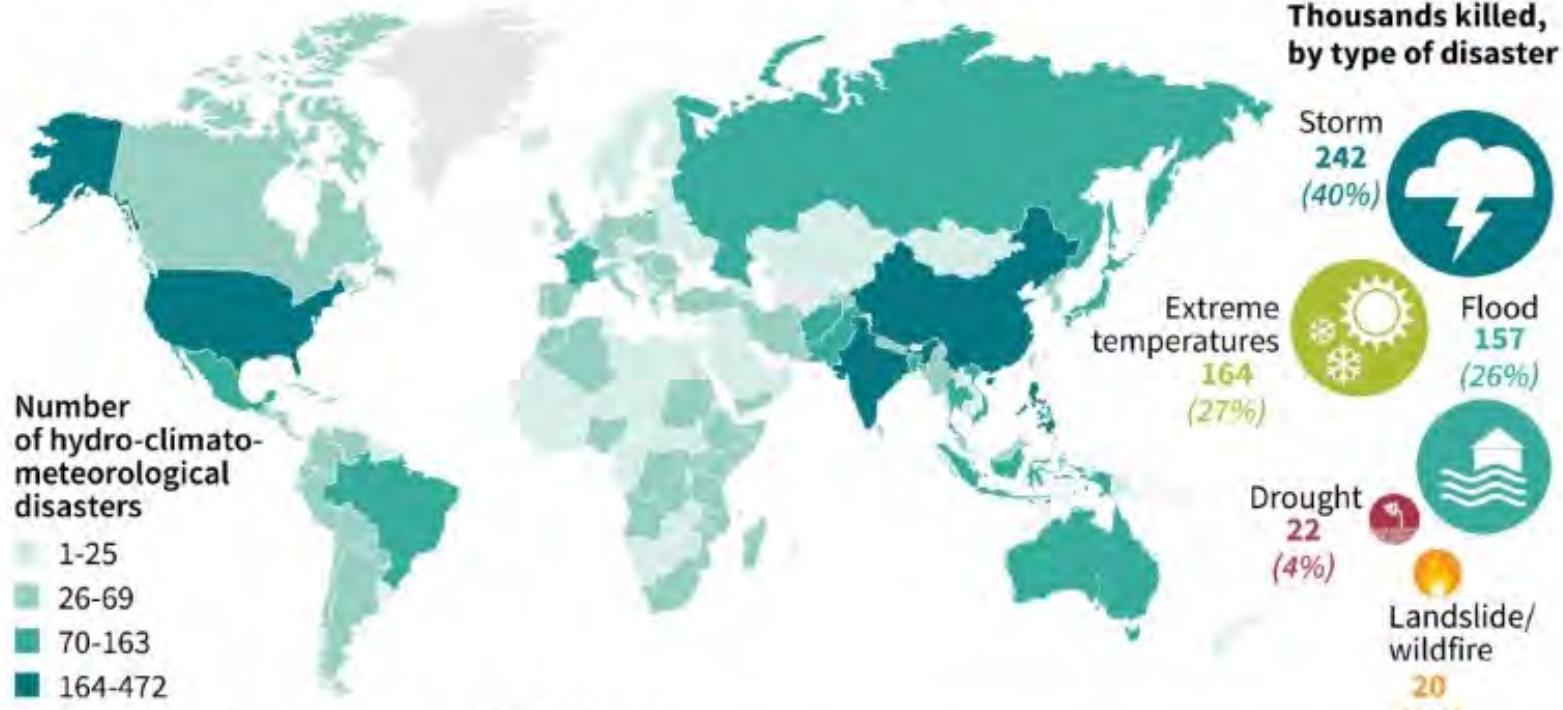


:viveconomics

How important is Climate change?

Two decades of weather-related disasters

Numbers of catastrophes and the worst-hit countries (1995-2015)



Numbers killed: the top 5 countries (1995-2015)

Number of deaths

| | |
|-----------|---------|
| Myanmar | 139,325 |
| India | 62,325 |
| Russia | 58,918 |
| China | 33,417 |
| Venezuela | 30,239 |

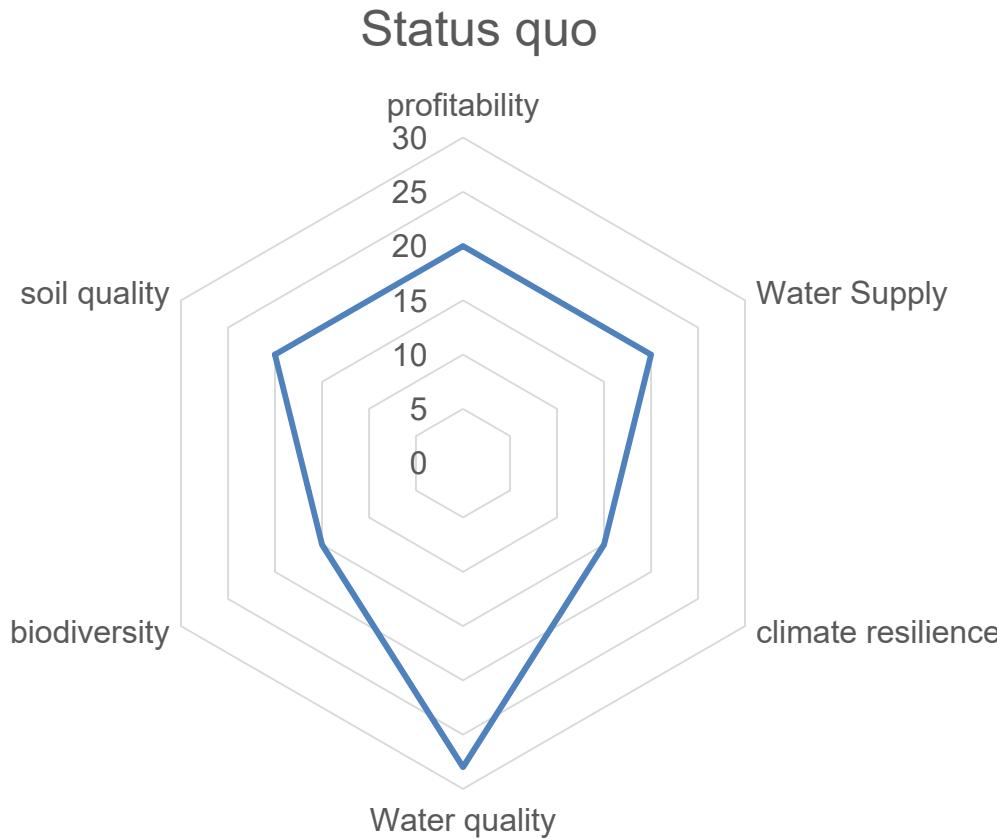
Source: UNISDR

Deaths per million inhabitants

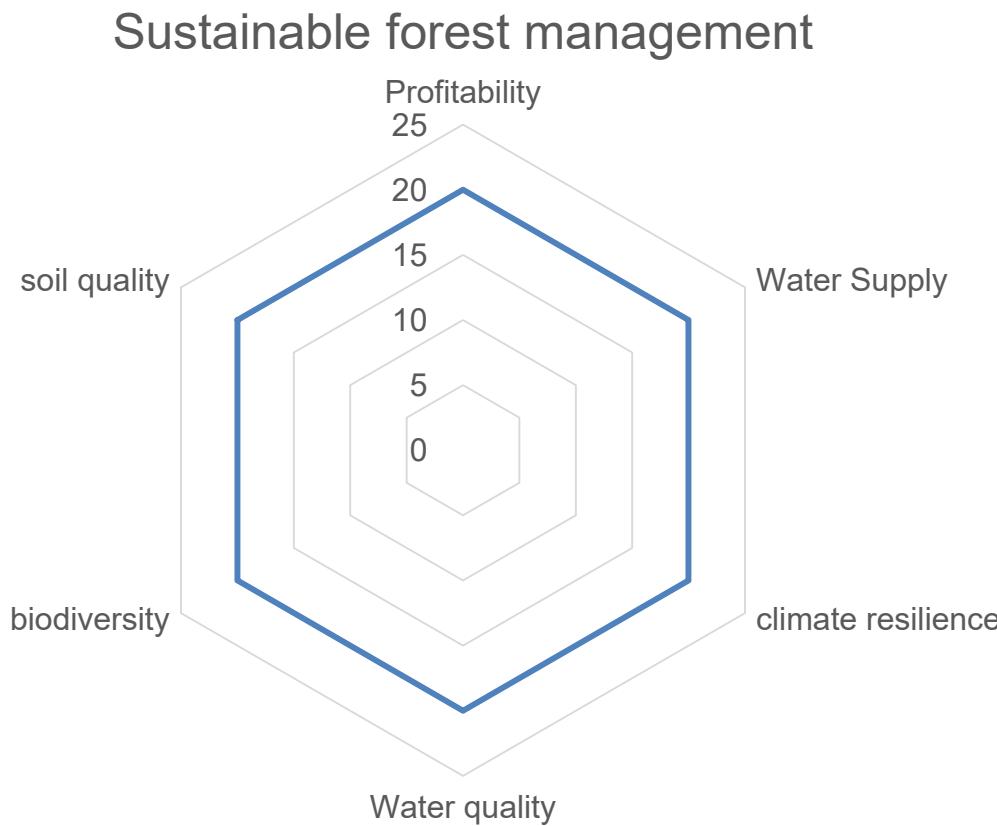
| | |
|-----------|-----|
| Myanmar | 170 |
| Venezuela | 126 |
| Russia | 24 |
| India | 3 |
| China | 1 |

AFP

Forest systems under Pressure: intensification, climate change and their interactions



Forest systems under Pressure: intensification, climate change and their interactions



What research will be required to ensure ongoing sustainable forest management?

Time to be bold

- Recognise value of research outside the current research envelope (beyond our comfort zone).
- Disruptive technologies but how do we carry out disruptive research?
- Need to redefine our envelope of comfortable research and go beyond the margins



Process time line

- March 2017 - now
- April 2017 Bid Development (Connections matter, SLO, Water, ????)
- March 2018 (Bids submitted)
- April 2018 Detailed consultation begins on post GCFF
- September 2018 productivity and uniformity summit, any successful new bids would start
- ?? Vote on levy extension
- February 2019 review draft proposal
- March 2019 bids submitted
- September 2019 GCFF wind up and new programme/s start



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30 March 2017

