

World Meteorological Organization

Weather • Climate • Water

The quiet revolution of numerical weather prediction*

Paolo Ruti, World Weather Research Programme,WMO







*Peter Bauer, Gilbert Brunet, Alan Thorpe, Nature 2015



Should I bring an umbrella tomorrow?



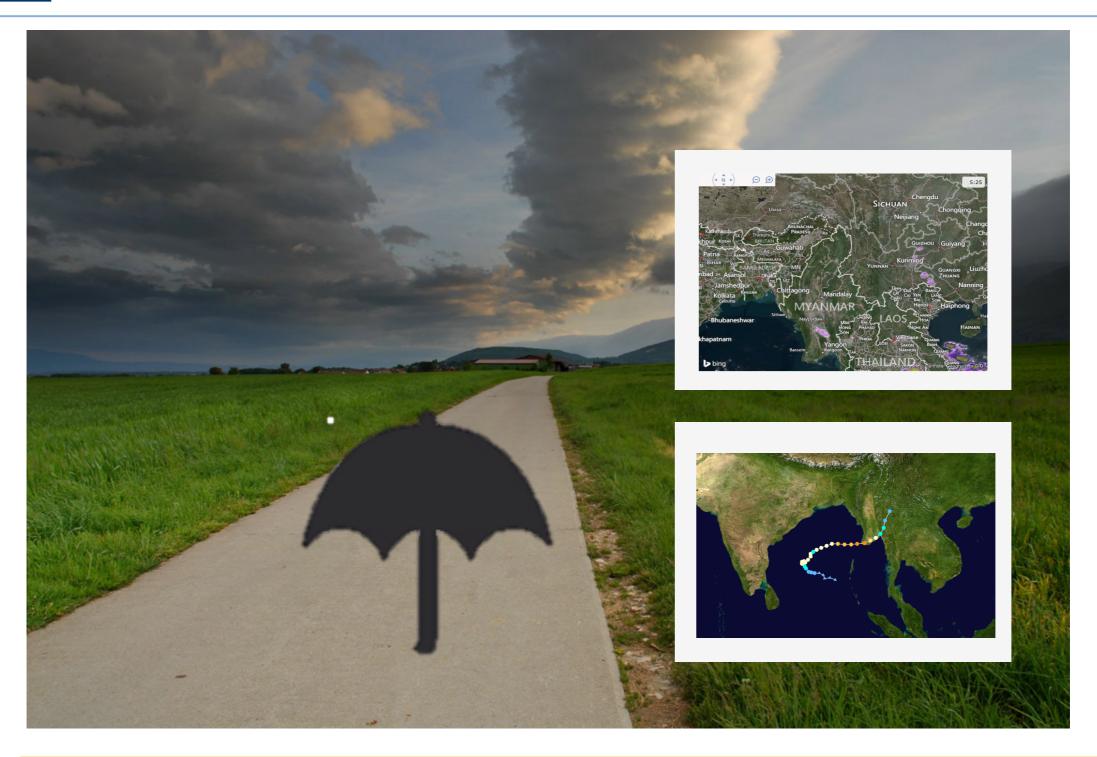


World Weather Research Programme





Questions like these are answered quite sufficiently today



World Weather Research Programme





But what happens with questions like these

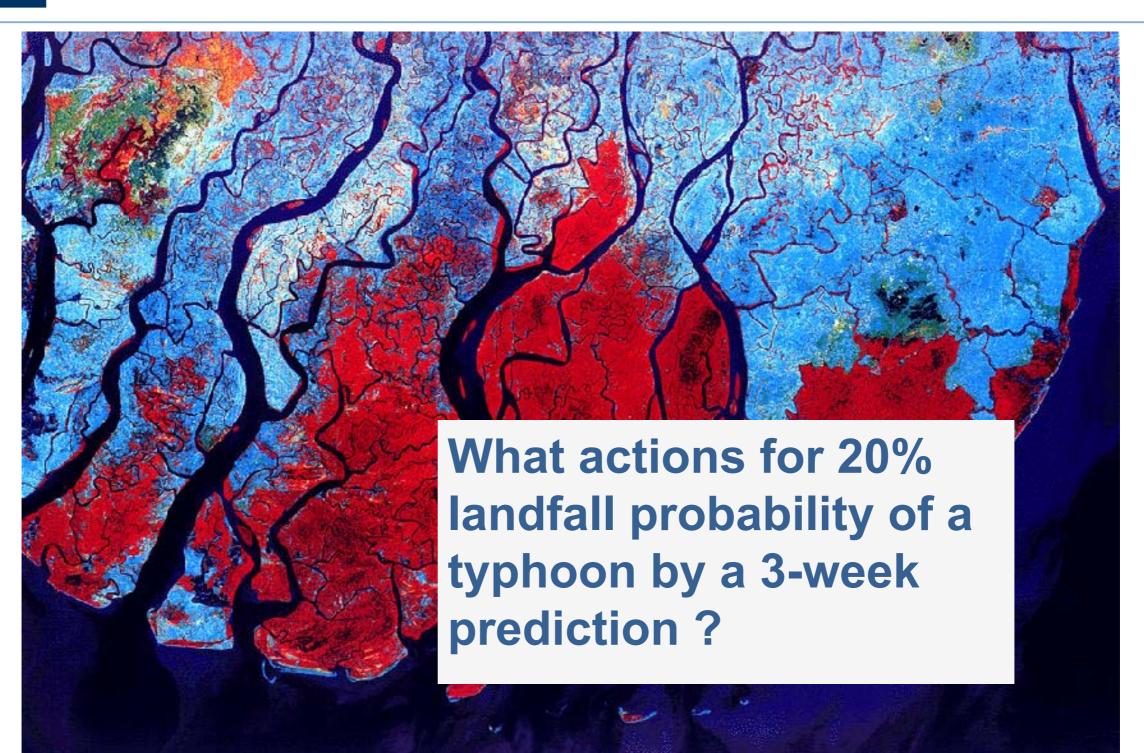


World Weather Research Programme





But what happens with questions like these





World Weather Research Programme



But what happens with questions like these

What health protocol should we run to be prepared for the next sand and dust storm?

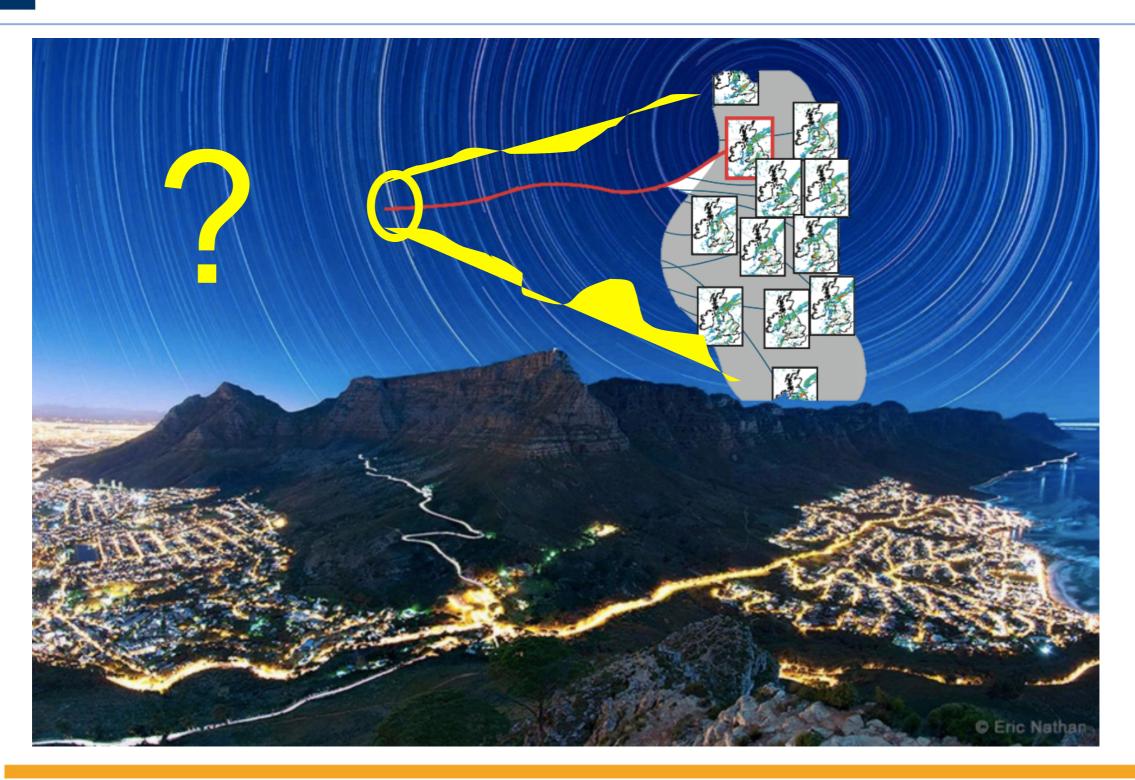




World Weather Research Programme



How to shape the met-future?





World Weather Research Programme



Some food for thought





World Weather Research Programme





Some food for thought

Improving predictive skill

We need more technology



World Weather Research Programme





Some food for thought

Improving predictive skill

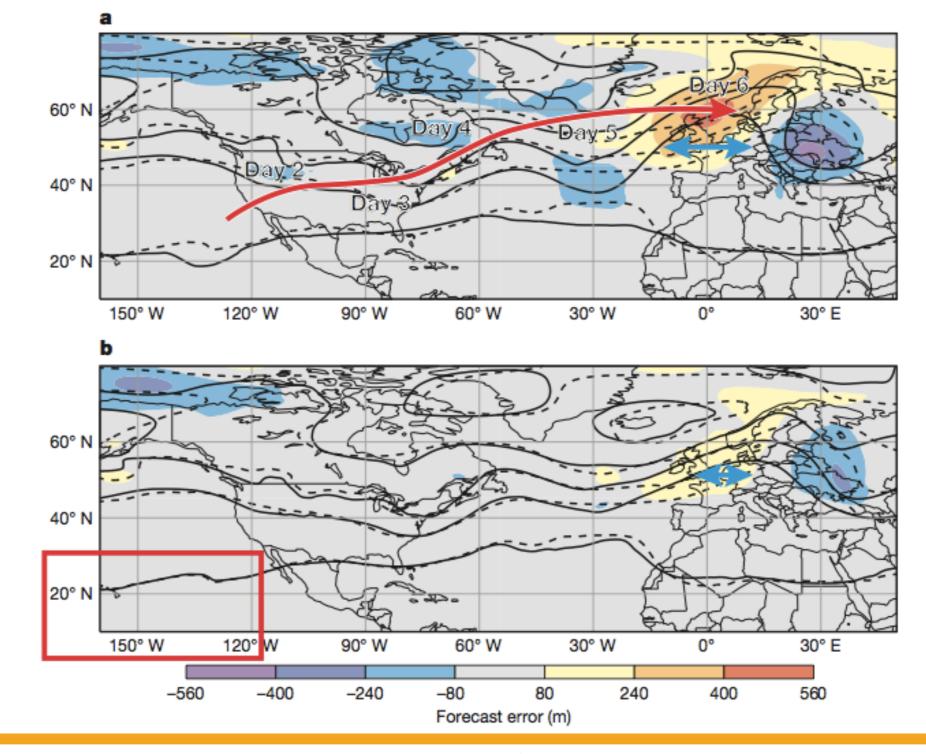
We need more technology



World Weather Research Programme



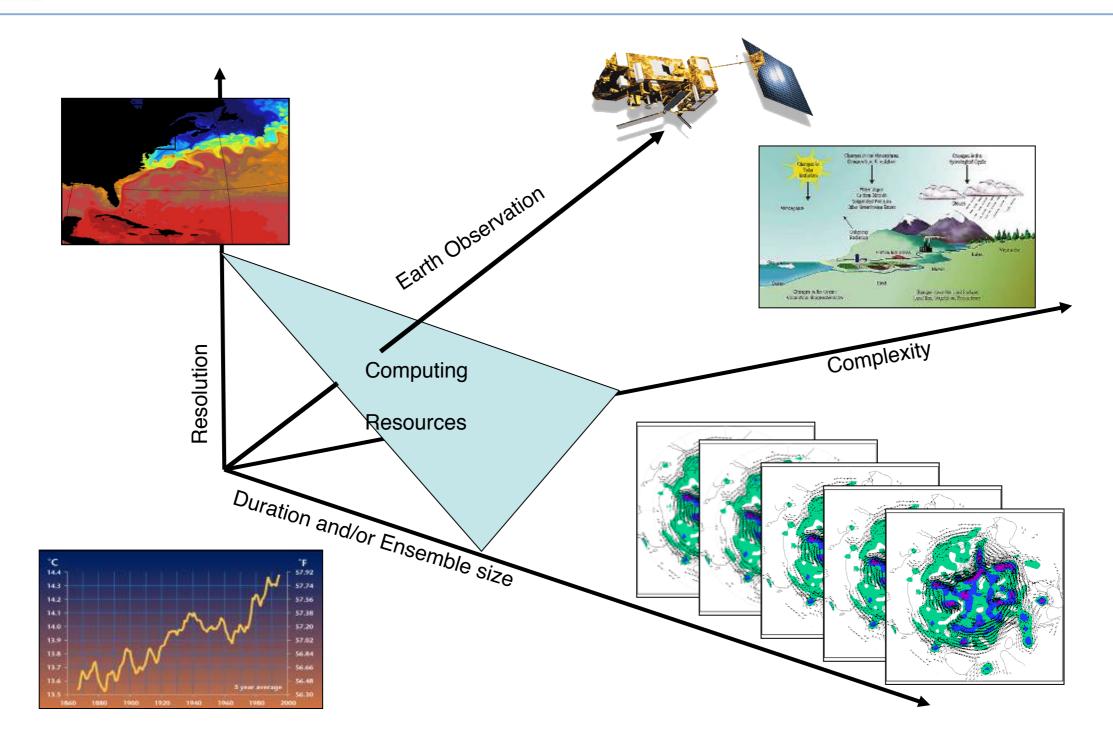
Improving predictive skill



World Weather Research Programme



Improving predictive skill

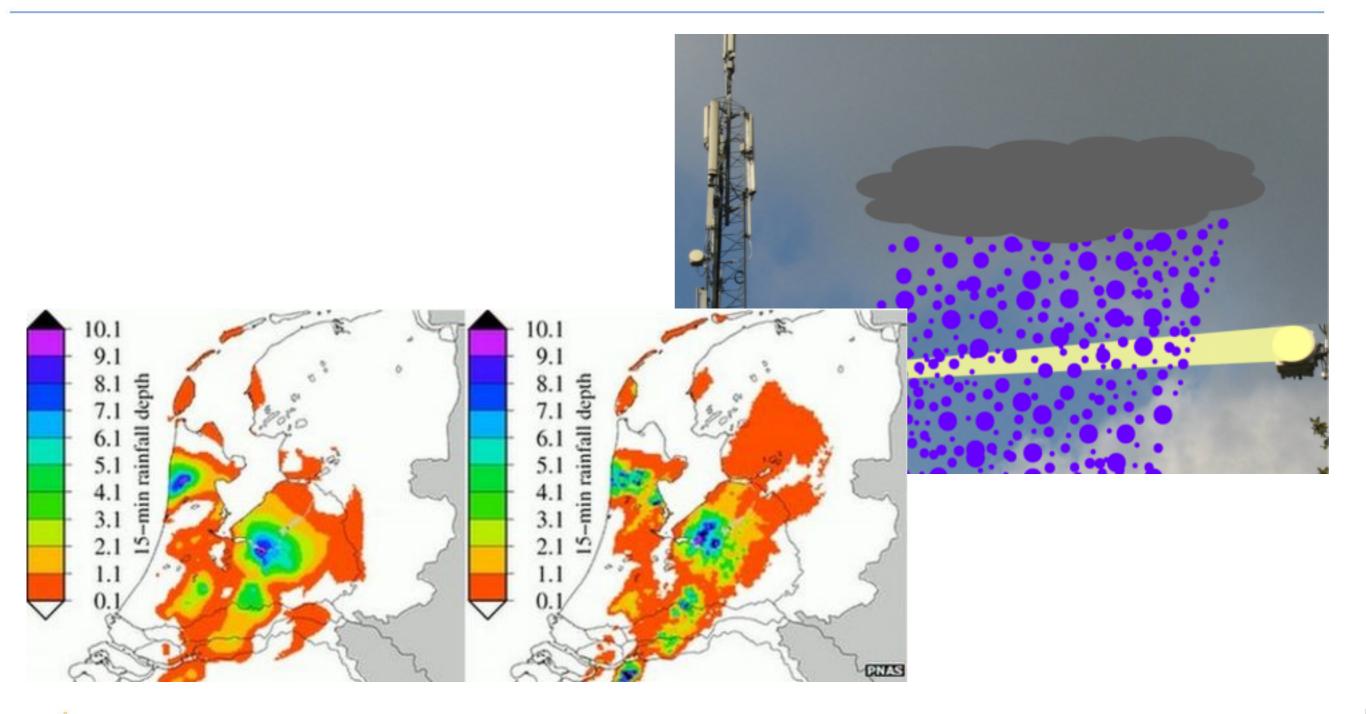




World Weather Research Programme



We need more technology





World Weather Research Programme





We need more technology



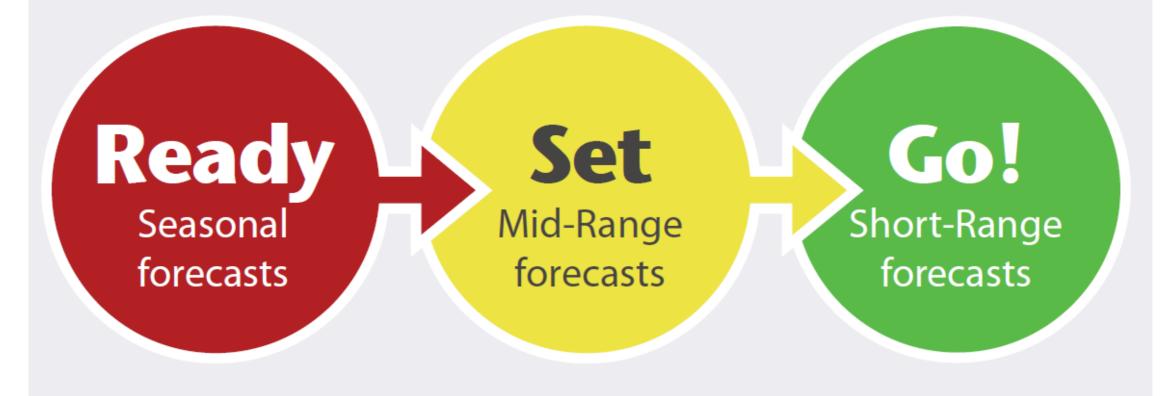


World Weather Research Programme





A multi-disciplinary prediction



Begin monitoring mid-range and short-range forecasts Update contingency plans Train volunteers Sensitize community Enable early-warning system Continue monitoring shorter-time-scale forecasts Mobilize assessment team Alert volunteers Warn community Local preparation activities

Deploy assessment team Activate volunteers Evacuate community

RED CROSS - IRI

Figure B5: Ready-Set-Go tool demonstrating actions to be taken with seasonal, intraseasonal and weather forecasts.

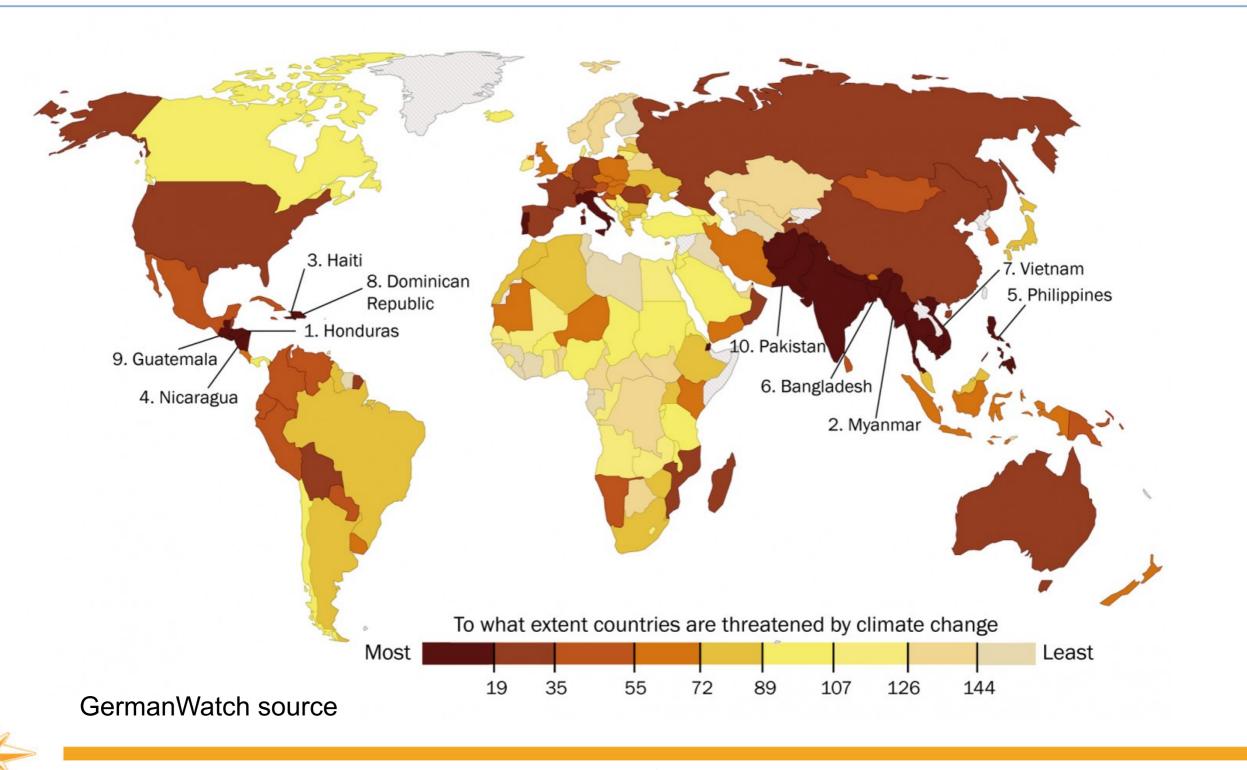


MPROVE

World Weather Research Programme



Who suffers the most ?



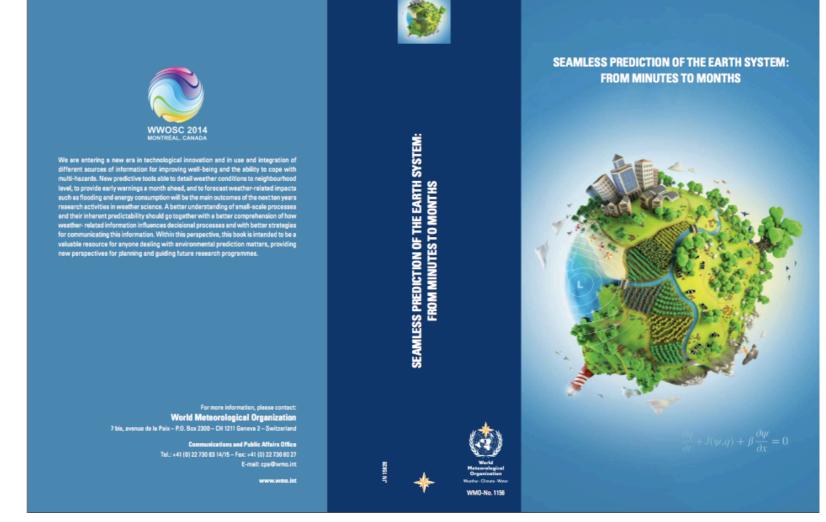
World Weather Research Programme



What successful people read before bed?

Google: seamless prediction WMO

https://www.wmo.int/media/content/seamless-predictionminutes-months





World Weather Research Programme



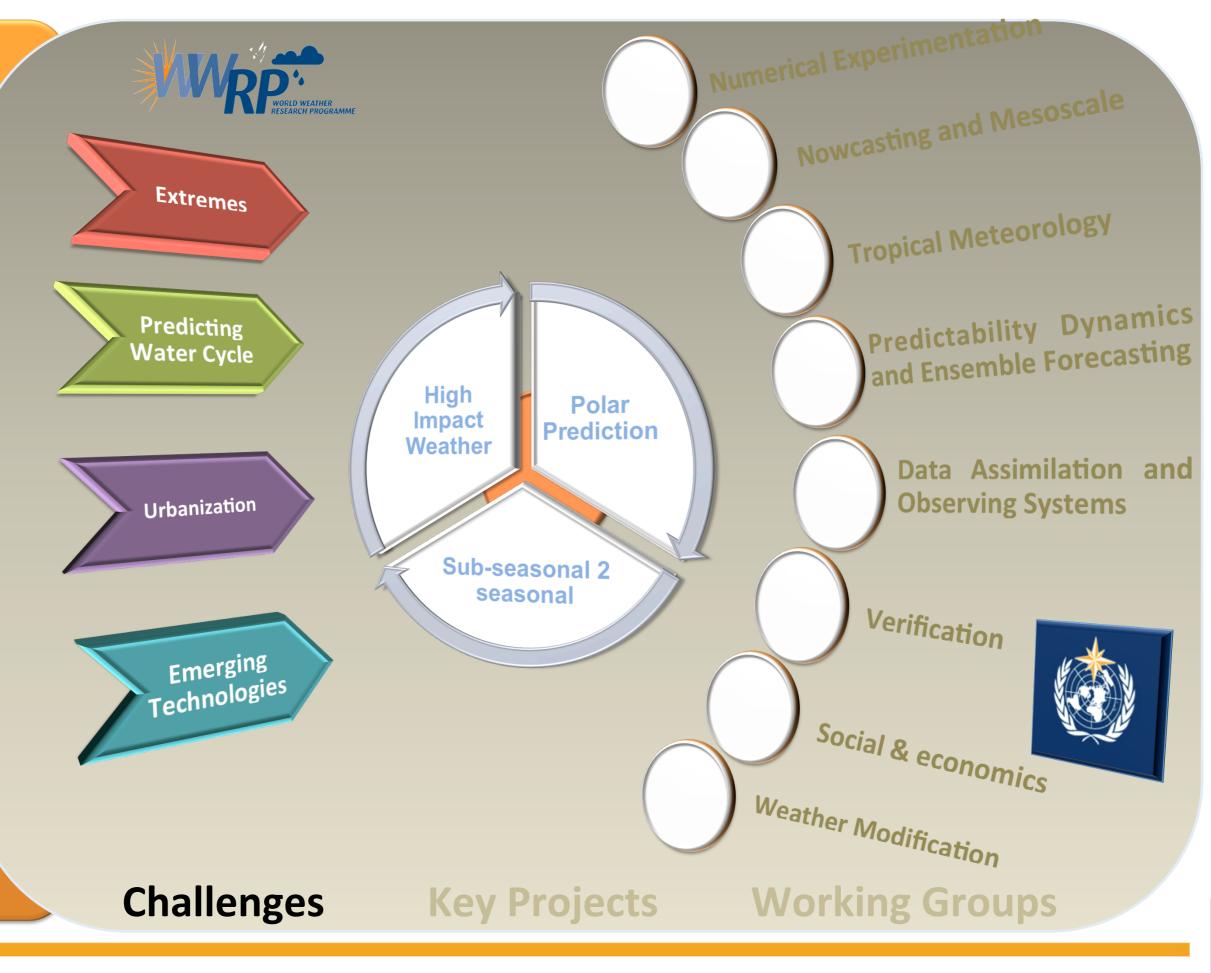


World Meteorological Organization

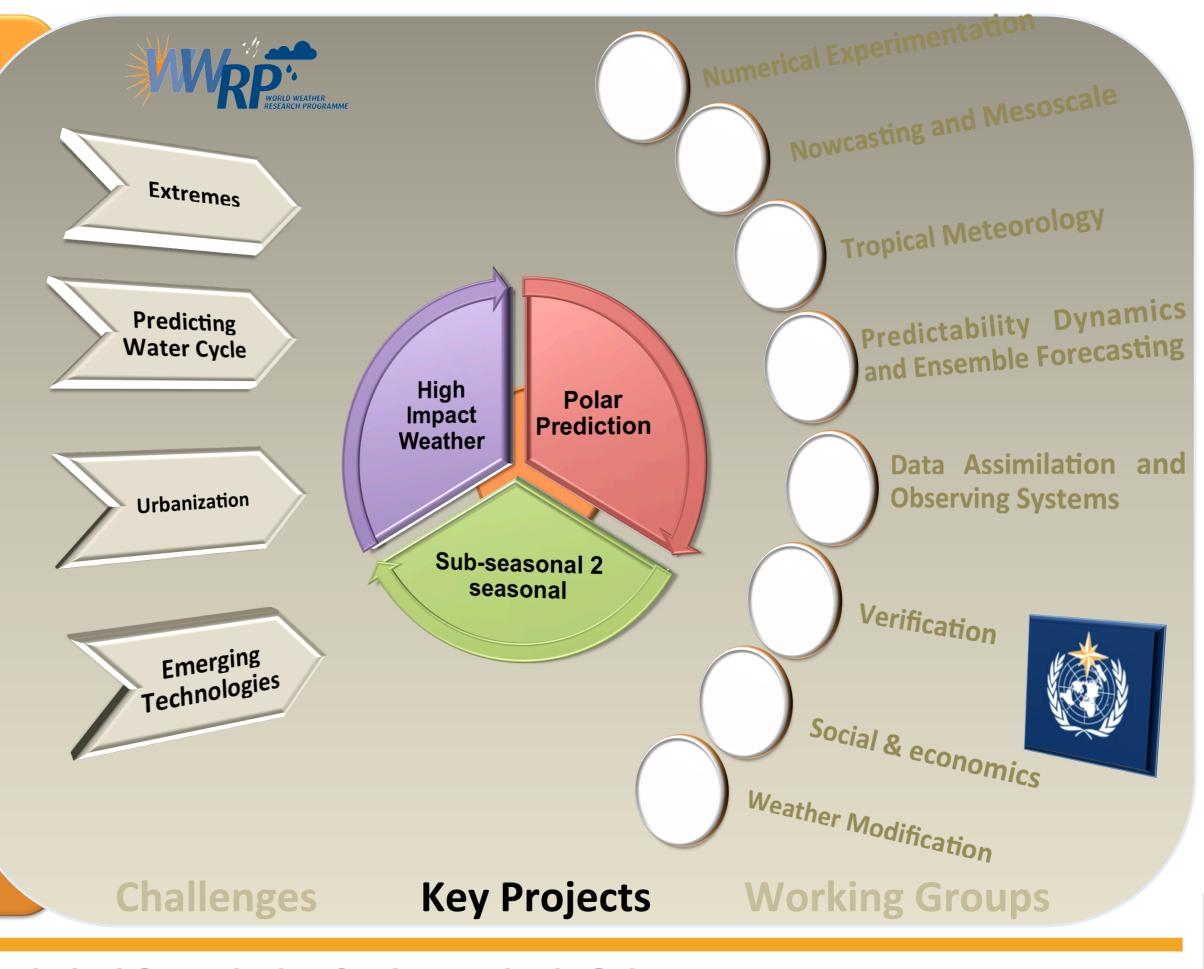
Weather • Climate • Water

Thanks

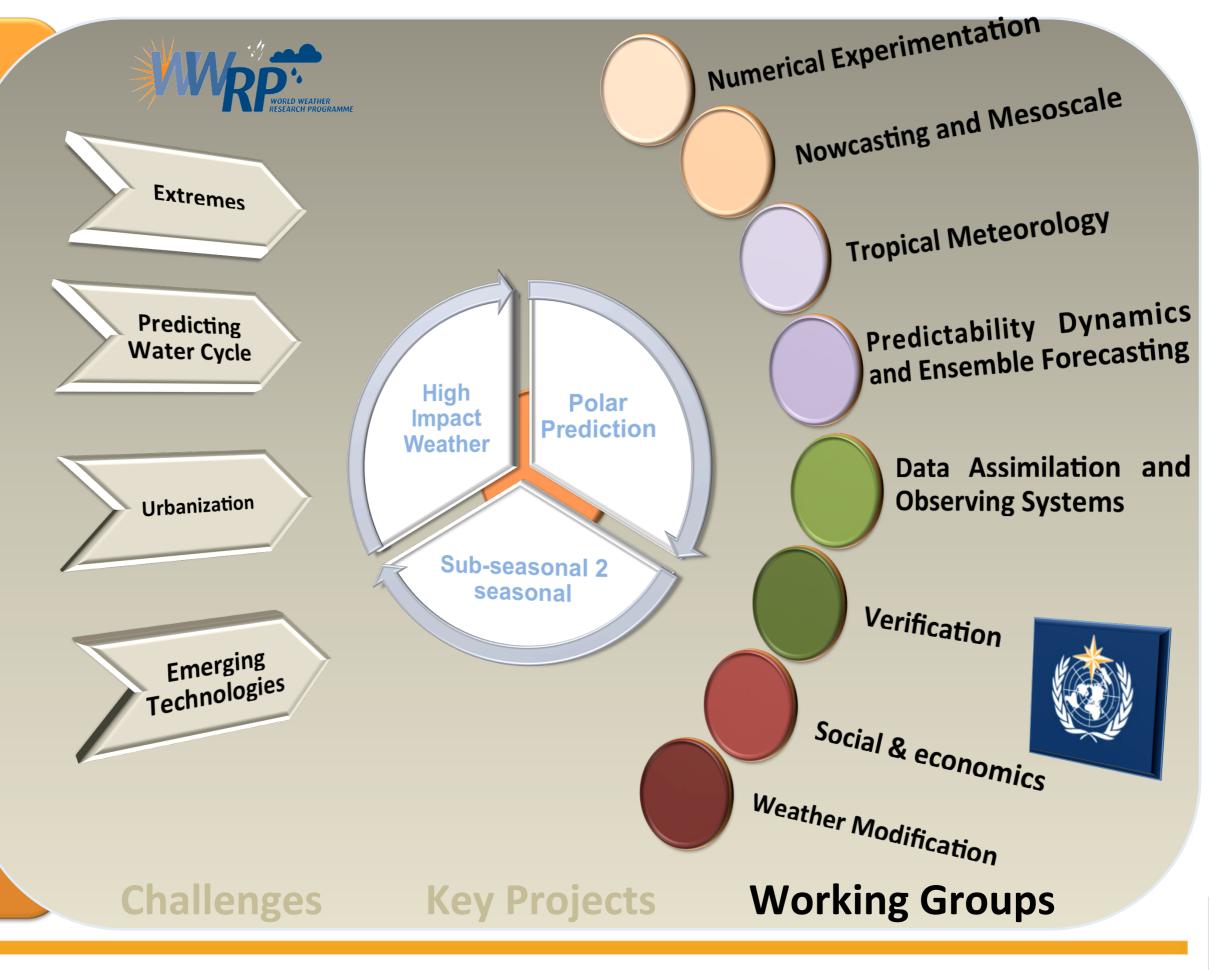
pruti@wmo.int



Technical Commission for Atmospheric Science



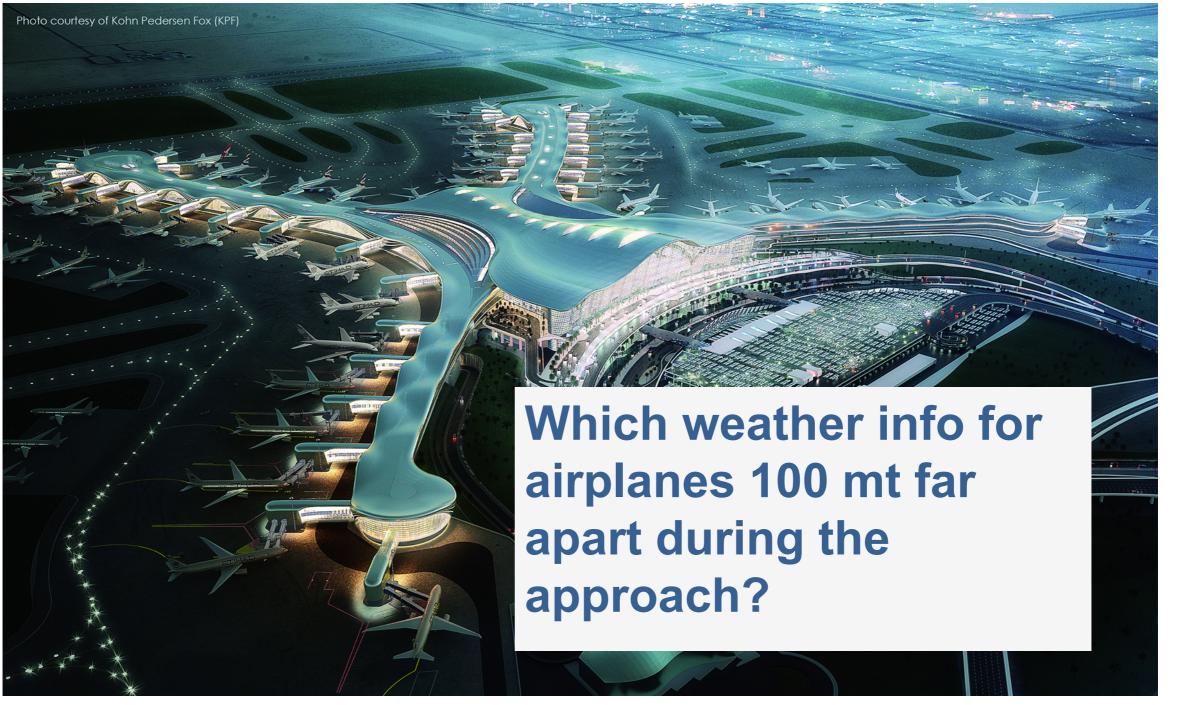
Technical Commission for Atmospheric Science



Technical Commission for Atmospheric Science



But what happens with questions like these





World Weather Research Programme

