

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?



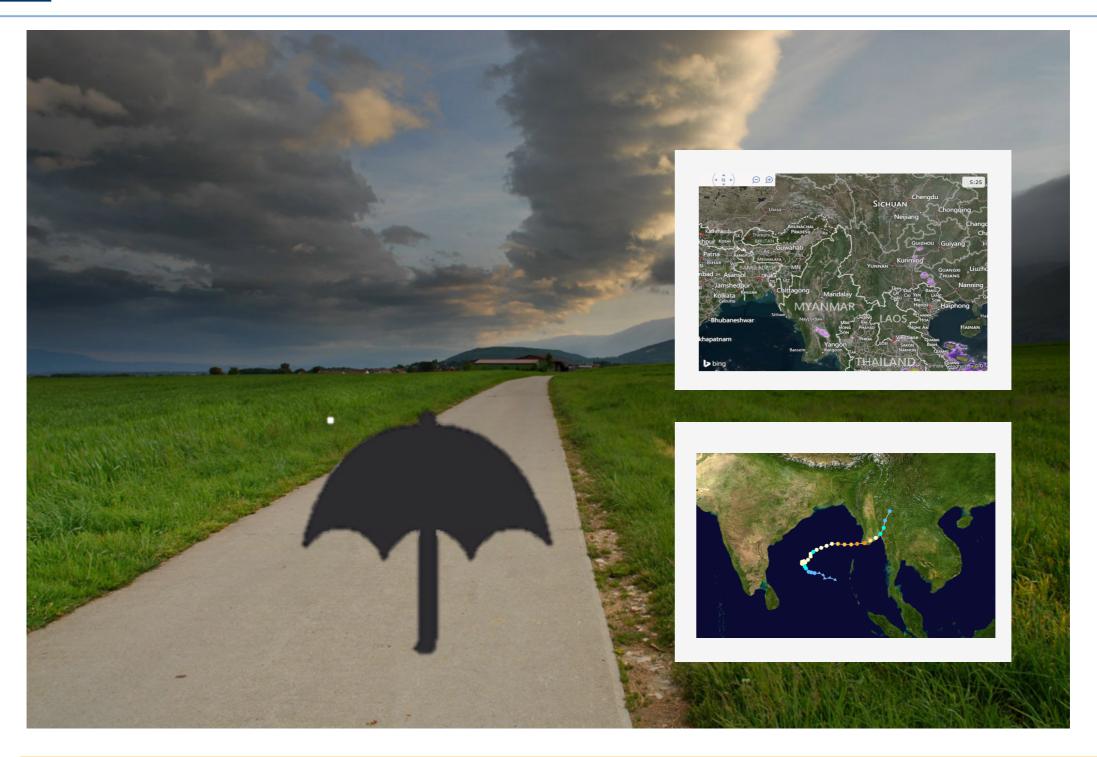


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Questions like these are answered quite sufficiently today



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But what happens with questions like these

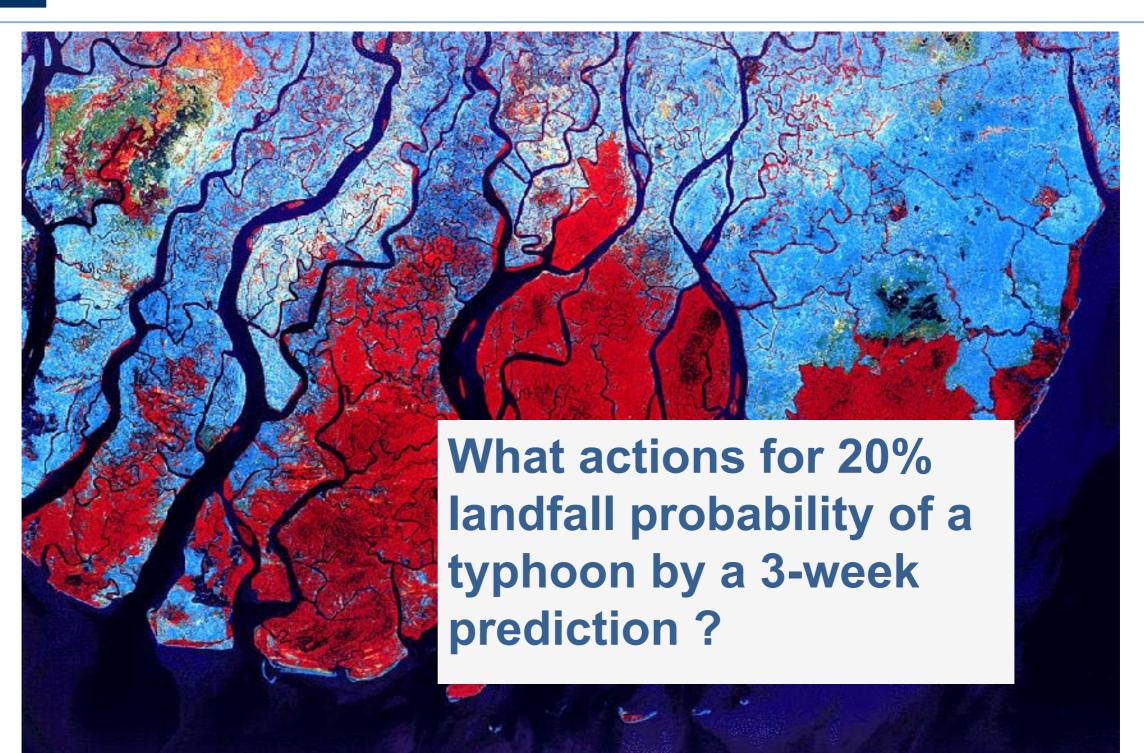


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But what happens with questions like these





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But what happens with questions like these

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

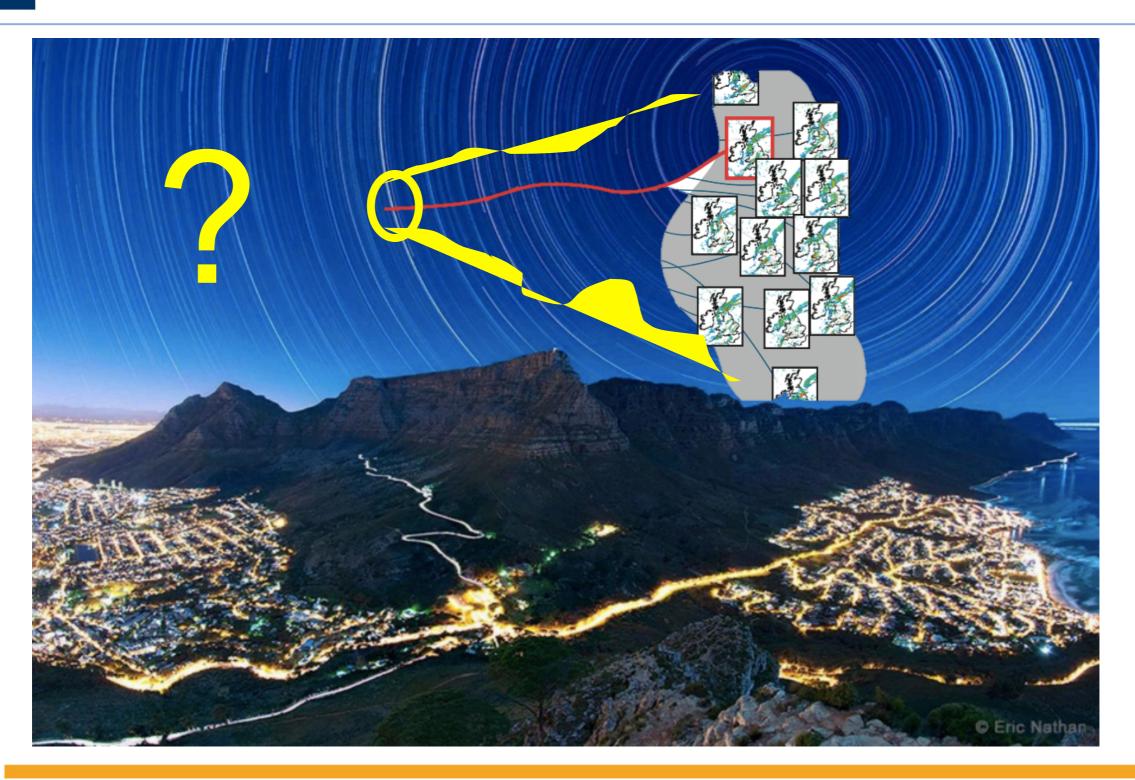




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How to shape the met-future?





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Some food for thought





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Some food for thought

Improving predictive skill

We need more technology



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Some food for thought

Improving predictive skill

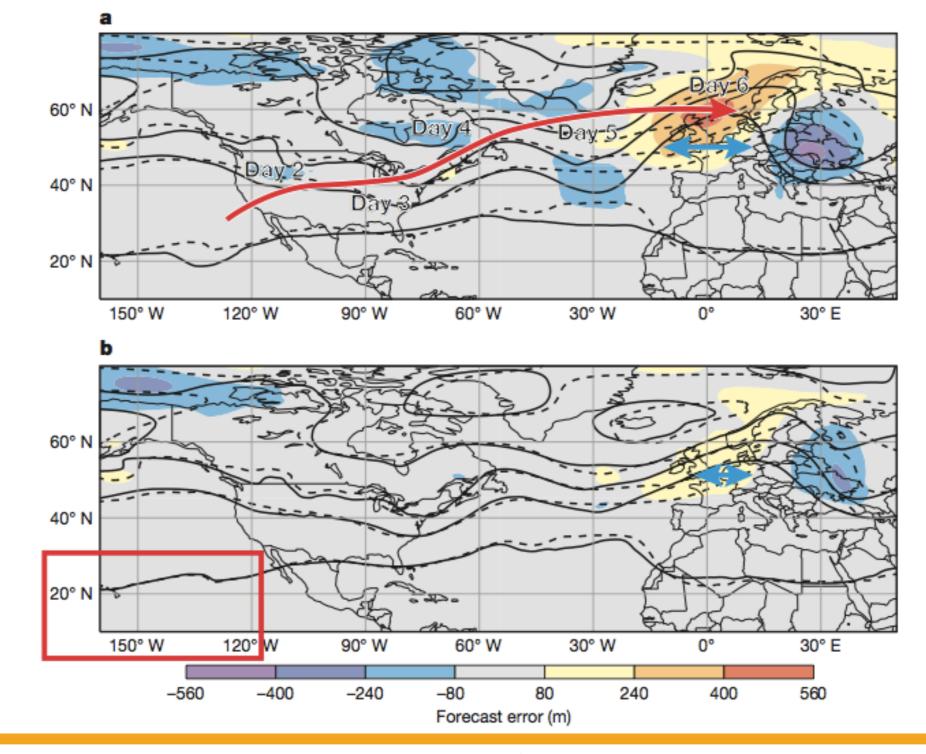
We need more technology



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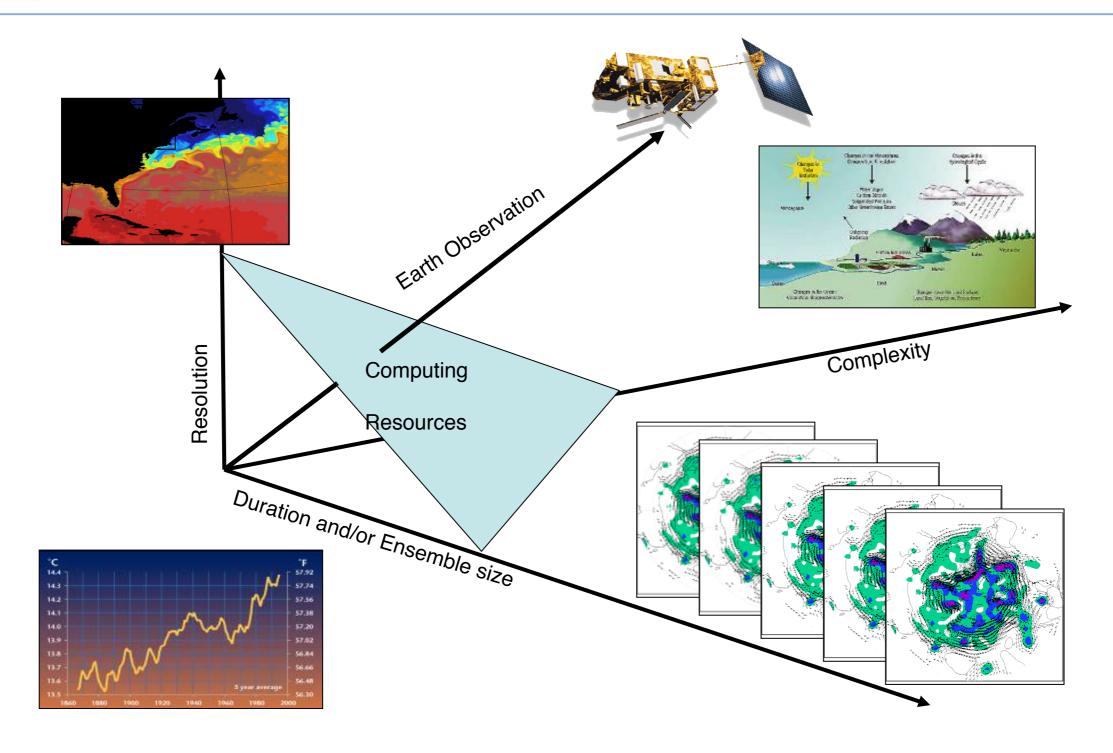
Improving predictive skill



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Improving predictive skill

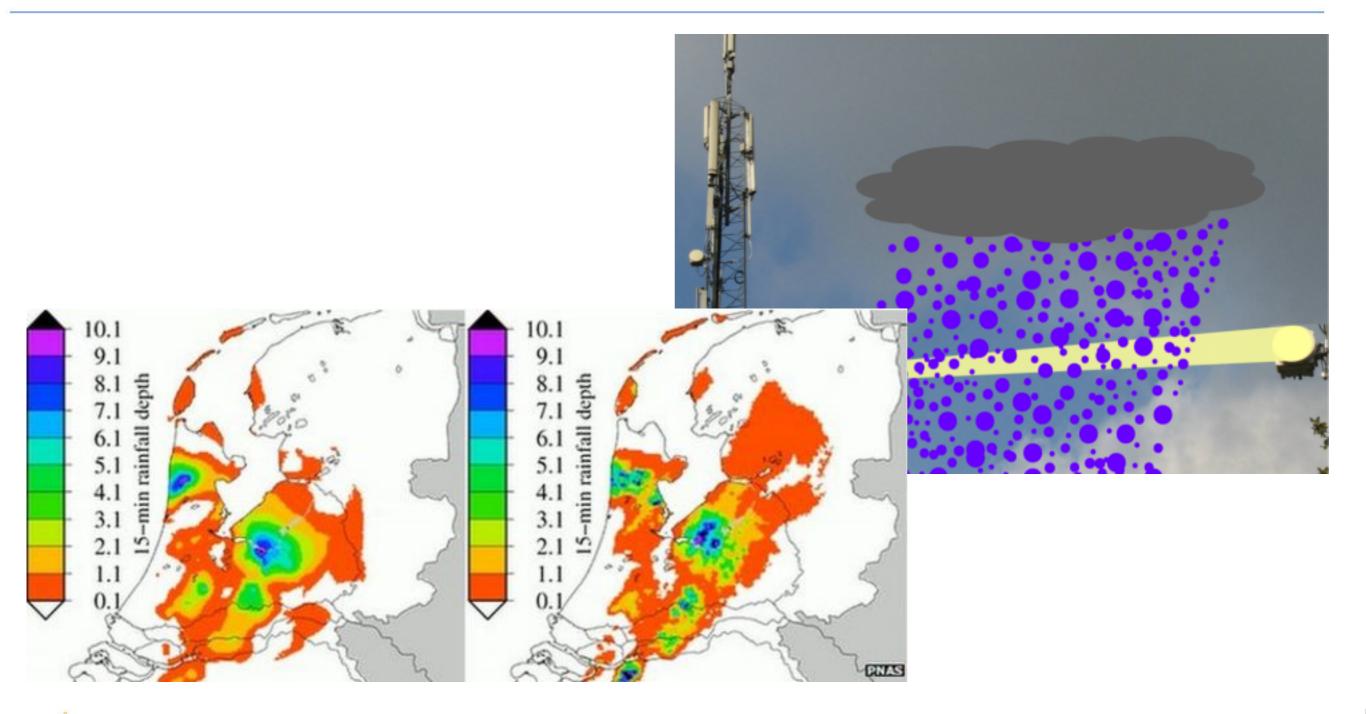




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We need more technology





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We need more technology



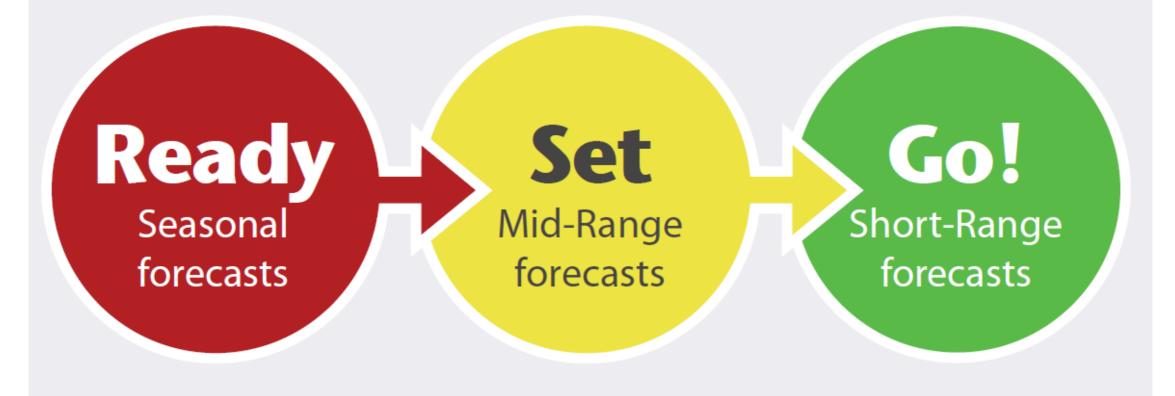


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A multi-disciplinary prediction



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.

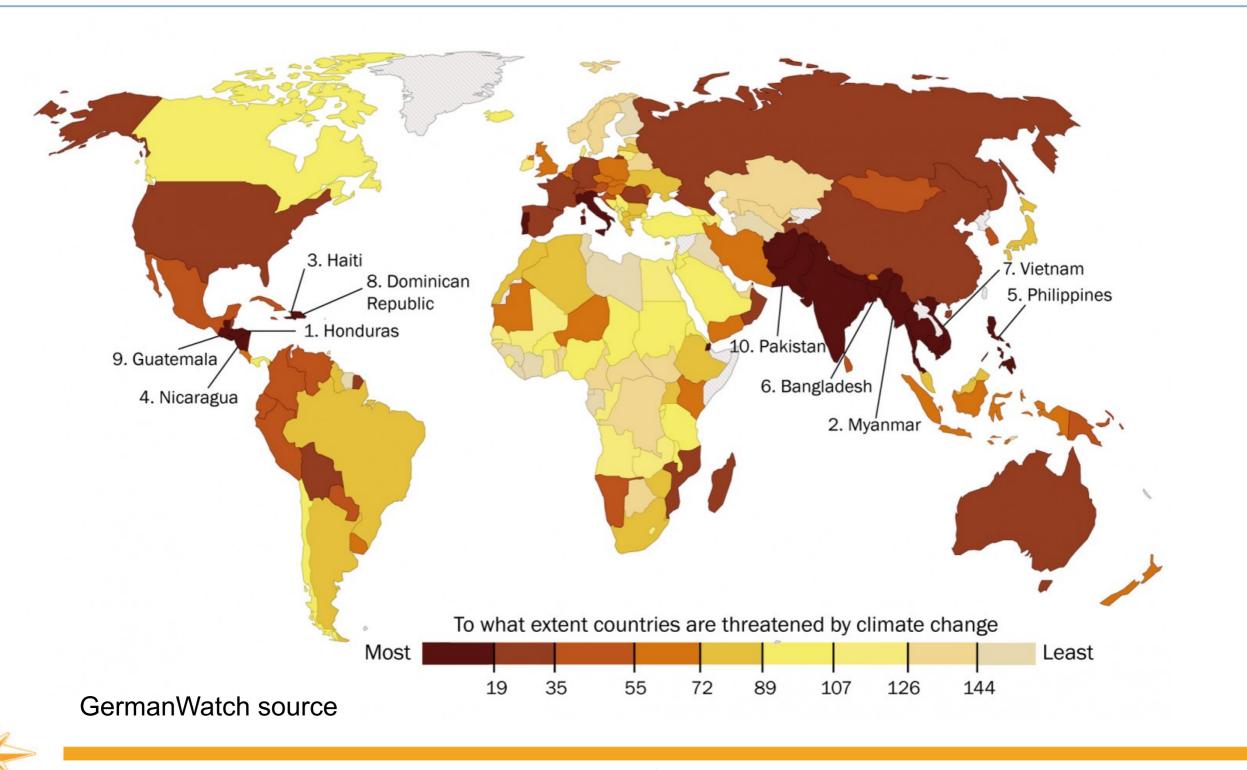


MPROVE

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Who suffers the most ?



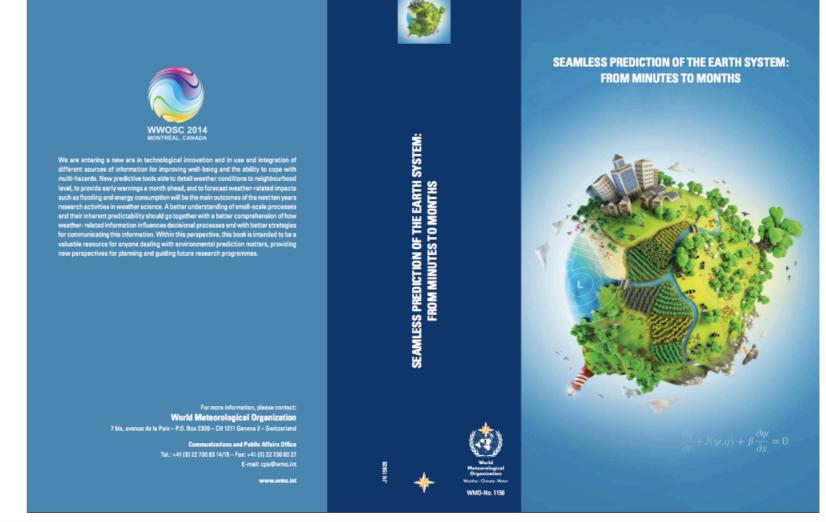
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What successful people read before bed?

Google: seamless prediction WMO

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





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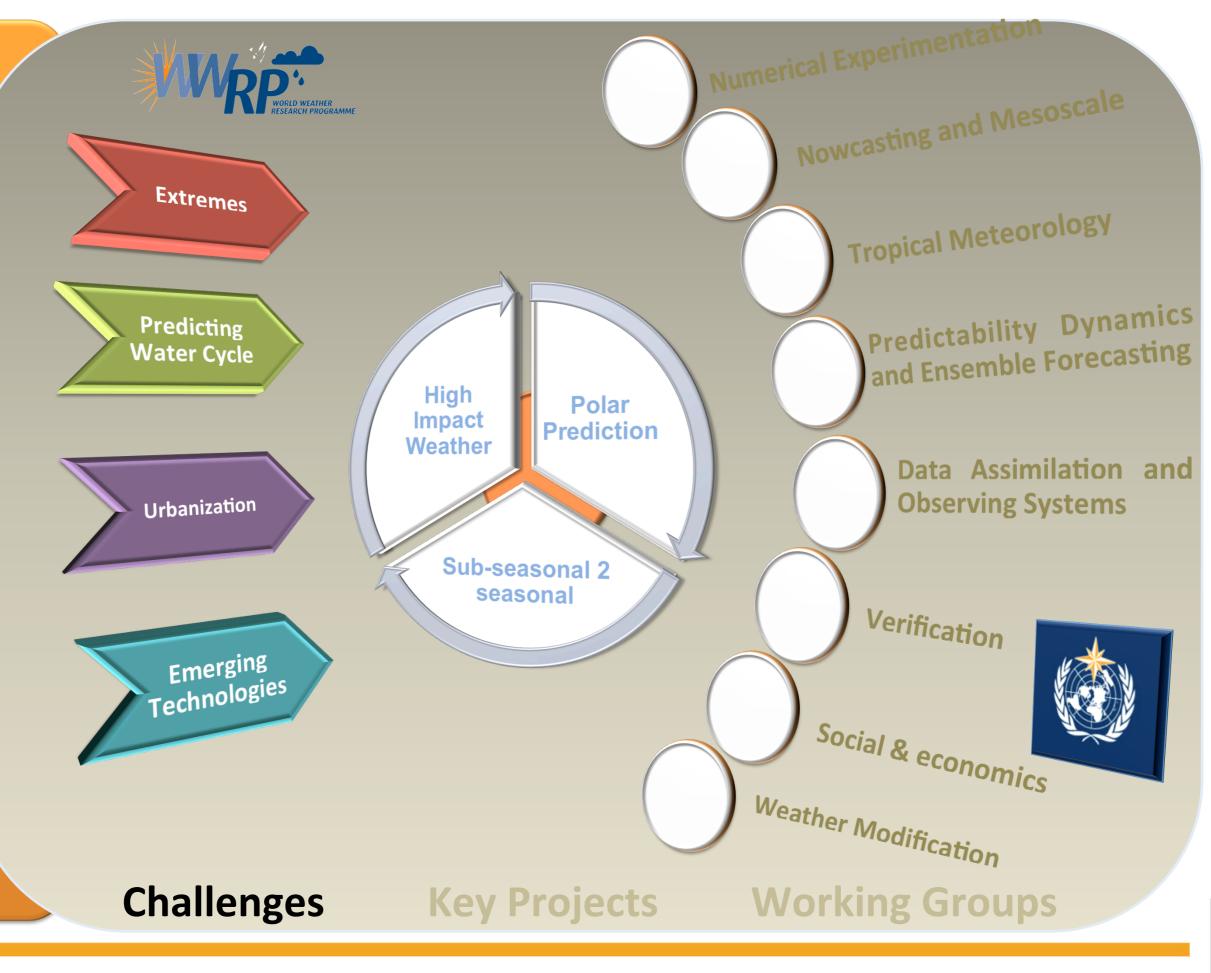


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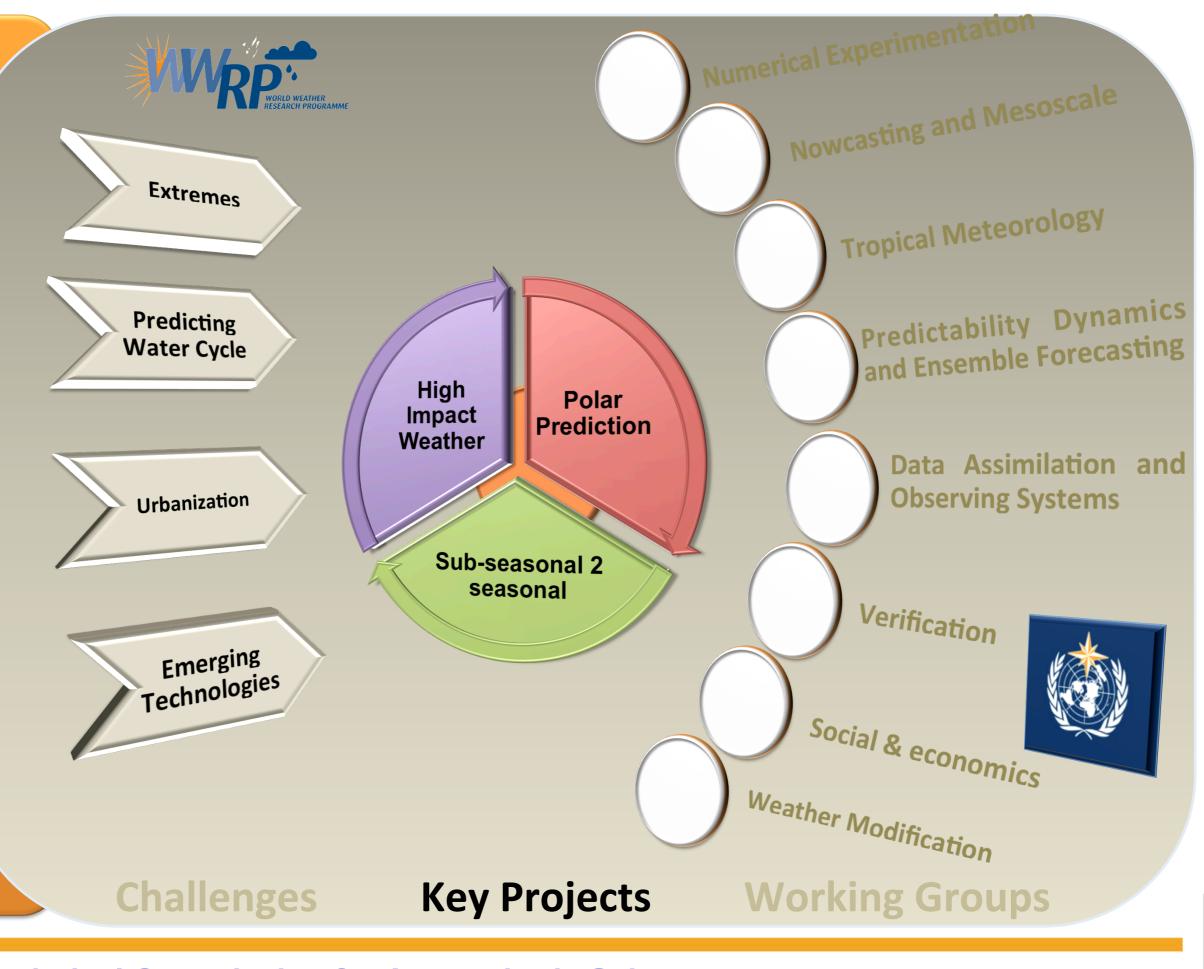
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Thanks

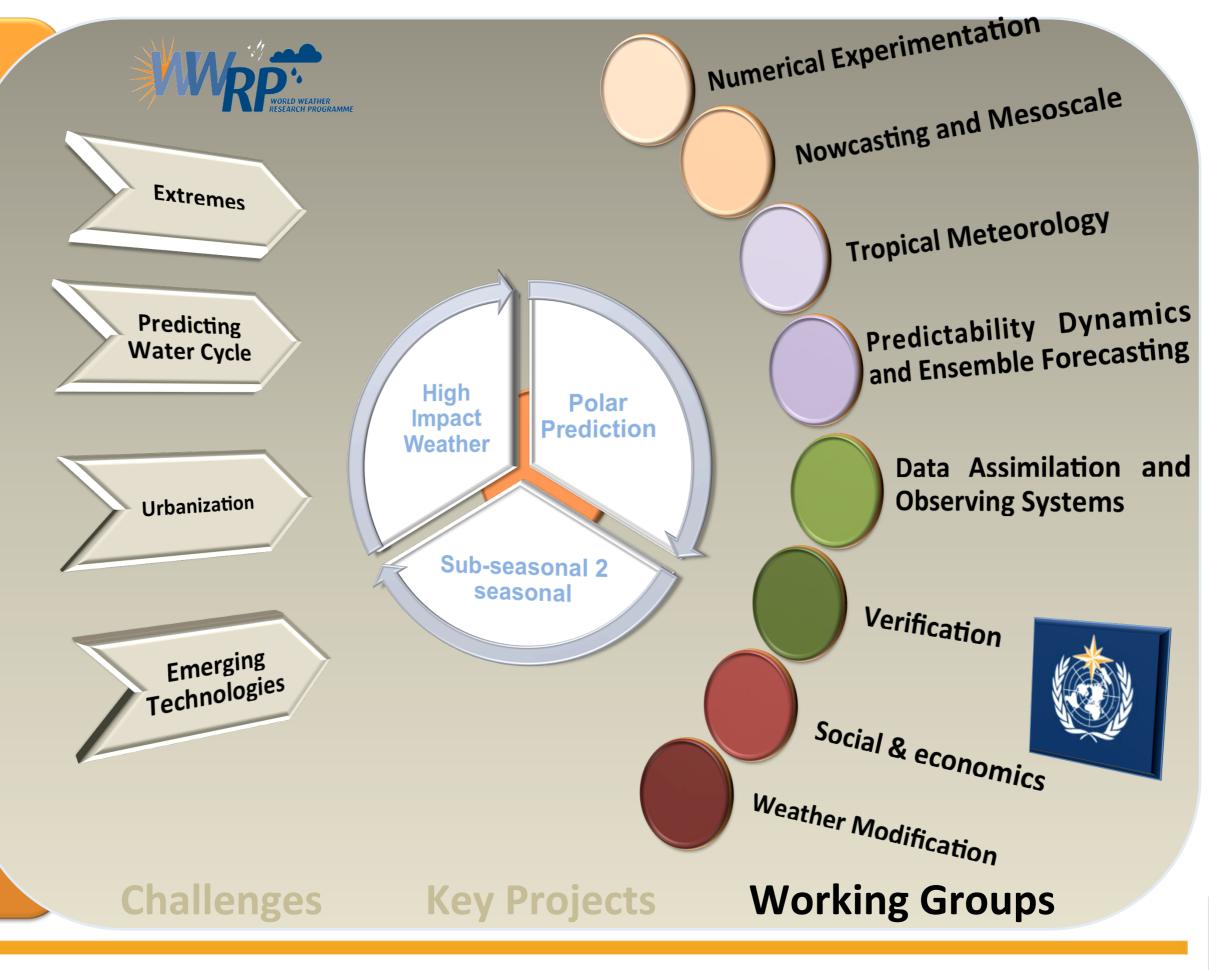
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Technical Commission for Atmospheric Science



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But what happens with questions like these





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