



Weather Information Value Chain

Monitor & Observe

Model & Forecast

Interpret

Produce

Decision making

Economic Value



Monitor & Observe

Model & Forecast

Model and observations improvements

March 2016

November 2016

Spring 2017

2017

Autumn 2017

2018-19

Better use of observations

Biggest improvement in a decade

Bigger UK domain

Extend runs to 5 days

Improved forecasts of showers

Global model resolution increase to

New UK hourly nowcasts

10km

New radar network

Precipitation type Doppler winds Increased resolution Run UK ensembles to 5 days Increased vertical resolution

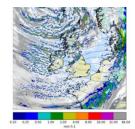
Couple atmosphere and ocean

Better convection

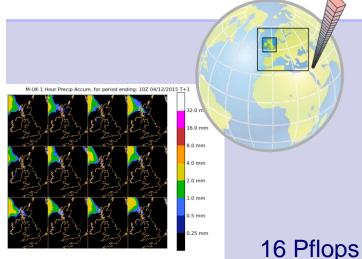


Improved showers





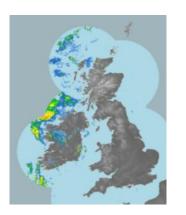


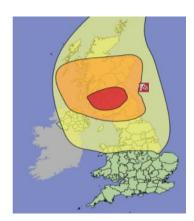


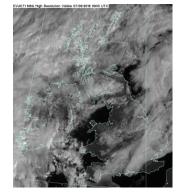


Content and services

- Data
 - Gridded forecast data
 - Spot data
 - Observations
- Warnings and Guidance
 - National Severe Weather Warnings
 - Guidance
 - Scripts
- Forecaster/Meteorologist briefings
 - Verbal and web













Services for the Information Economy - INSPIRE

Discovery

Catalogue

View

Visualisations

Download

Data downloaded as is

Transform

Reuse for interoperability

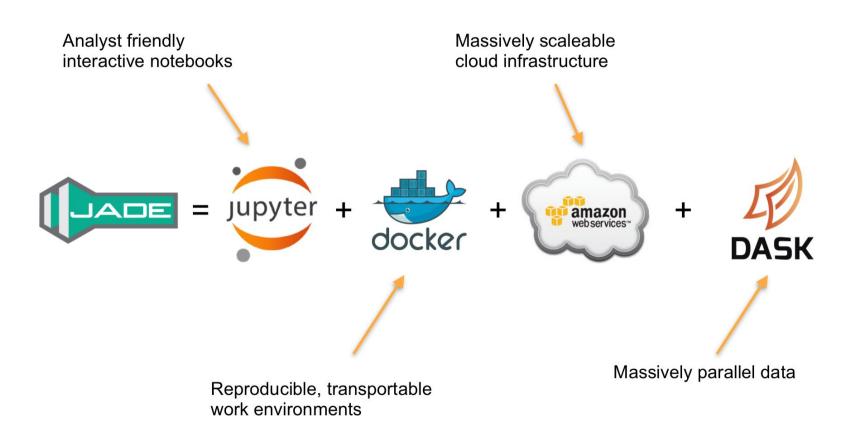
Invoke

Remote compute



New ways of working

Met Office Informatics Lab





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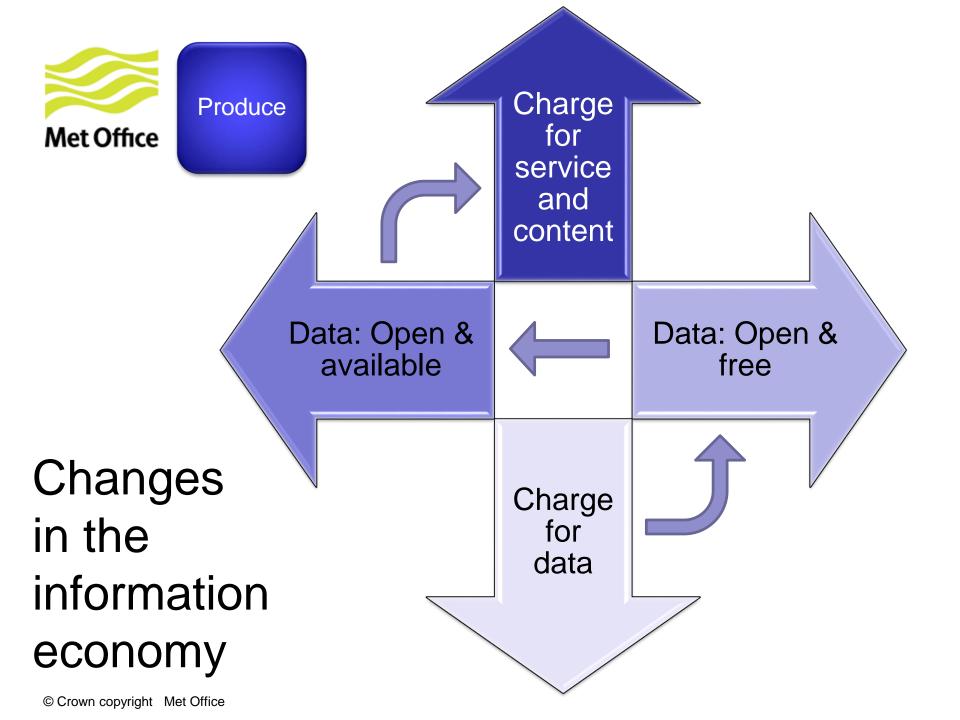
Produce

Decision making

Economic Value

WMO Interoperability

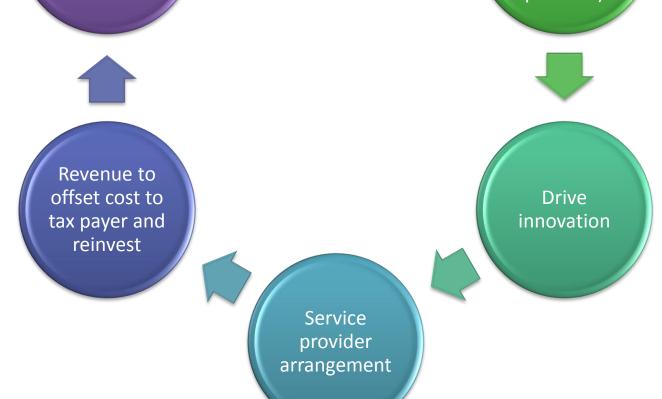
Met Service providers





Social and economic benefit for UK economy Branded reach (trusted information provider)

Met Office drivers



Public Weather Service reach



Divergence of information



Weather Forecast Services

Google

Yahoo

Amazon

BA

Authoritative Warnings

*

An IBM Business





MeteoGroup

Met Office

DWD

Meteo F

NWS



Open Weather - Purpose

- Maintaining the authoritative voice of NMSs
- Ensuring consistency between Warnings and forecast
- Supporting the global weather market
- Allowing seamless access to global weather from multiple NMS providers

www.metoffice.gov.uk



Contextual Diagram

