Norwegian
Meteorological
Institute

Strengthening Weather Services as Digital Public Goods

yr.no in Africa

EMS, Copenhagen 9/9 2019

Håvard Futsæter

Anders Sivle

Jørn Kristiansen

Kristine Gjesdal

Content

Why strengthening weather services
What is Yr, DPG?

Weather forecast in Africa as DPG?
Who and how
What do we want to achieve?
Success factors
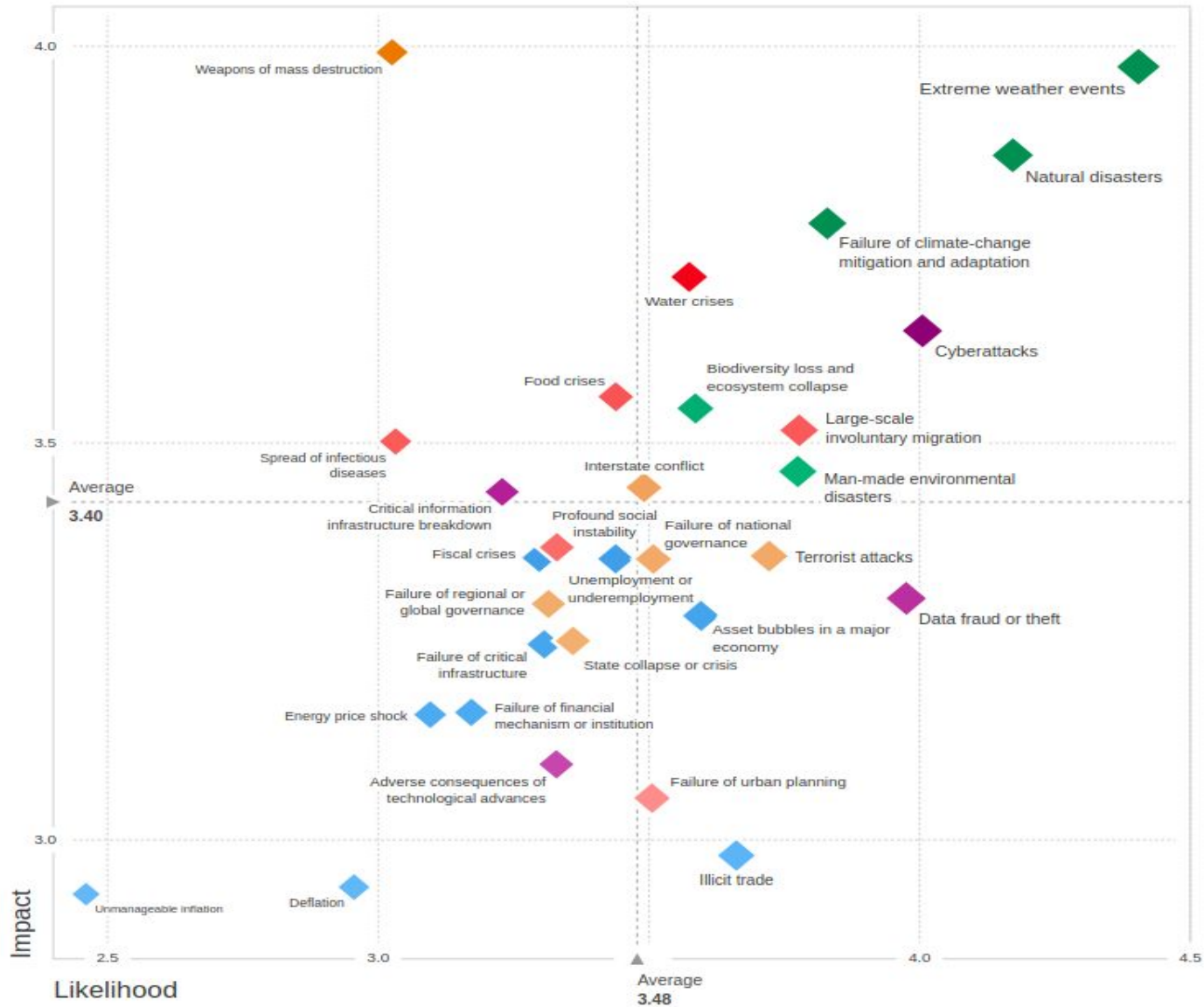
Why strengthening Weather Services?

FN

WMO

Norway

MET

Meteorologisk institutt

The Global Risks Landscape 2018

What is the impact and likelihood of global risks?

http://reports.weforum.org/global-risks-2018/global-risks-landscape-2018/#landscape///

Capacity building projects

Vietnam
Bangladesh
Sri Lanka
Myanmar
Mozambique

- in-house developed tools
- open source
- in daily use at MET
- hands on training
- weather and climate

Norwegian
Meteorological
Institute
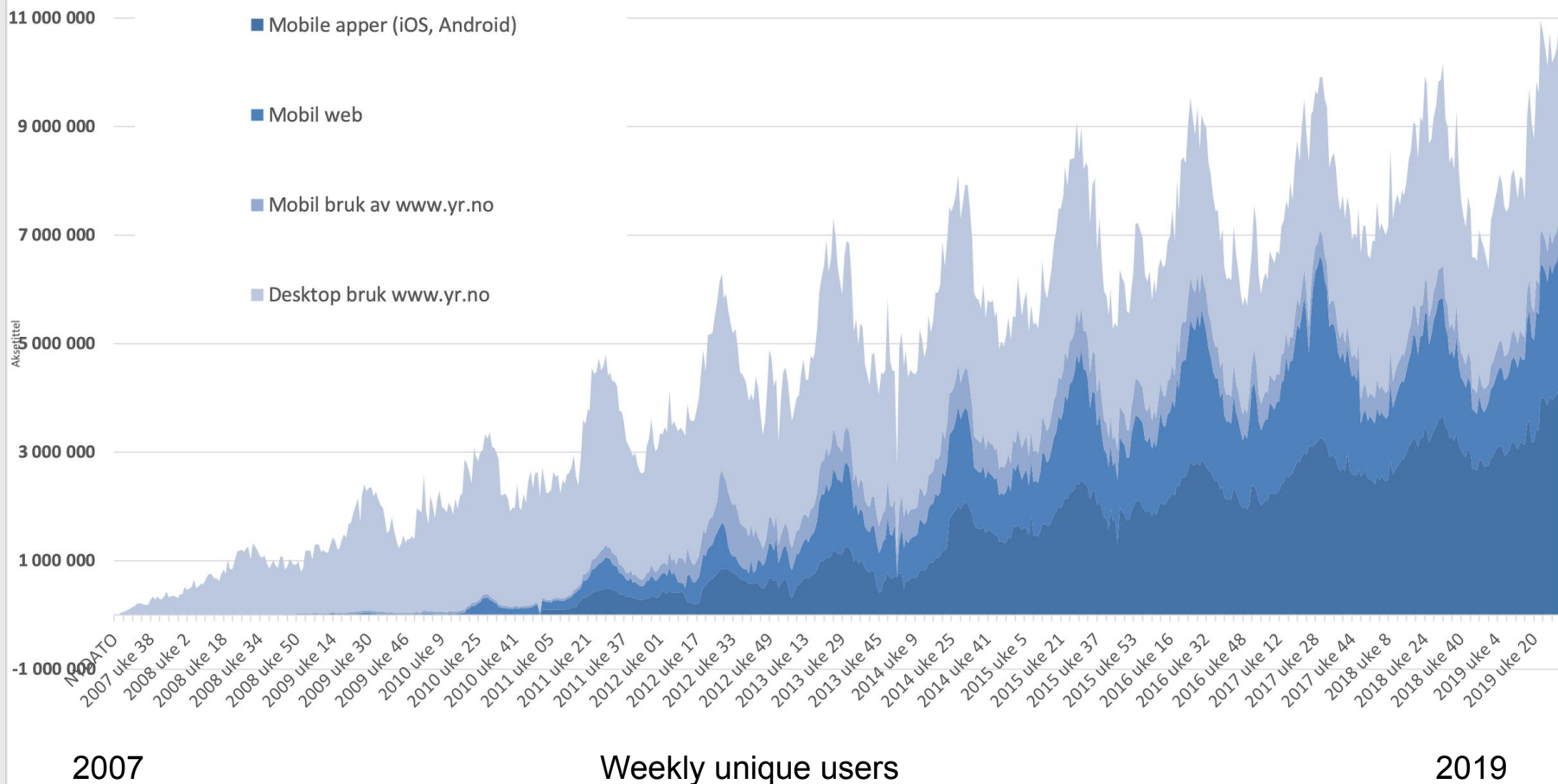
©KristineGjesdal

Yr

Meteogram, next 48 hours
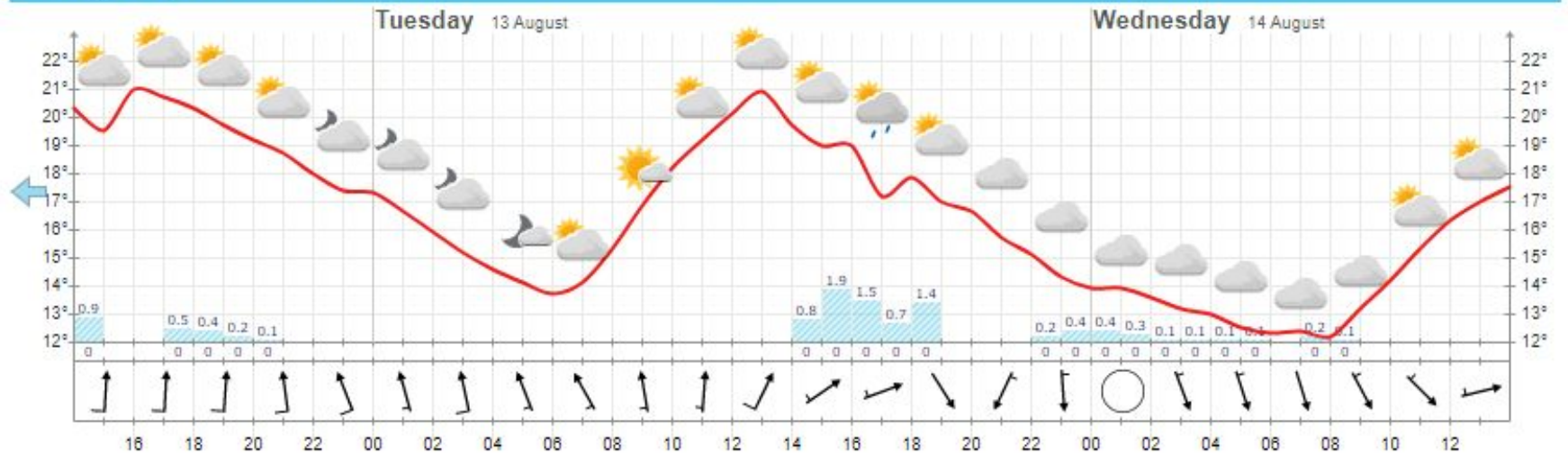
user centric

not complete before received
understood by end user
meets needs in decision process

Weather services as Digital Public goods

Norwegian
Meteorological
Institute

Use of Yr worldwide

Kilde: *TNS Scores/Metrix fra TNS Gallup og Google Analytics*

Legend:
- Mobile apper (iOS, Android)
- Mobil web
- Mobil bruk av www.yr.no
- Desktop bruk www.yr.no

2007 — Weekly unique users — 2019

Norwegian Meteorological Institute

Use of Yr worldwide

Norwegian
Meteorological
Institute

DPG   Digital Public Goods
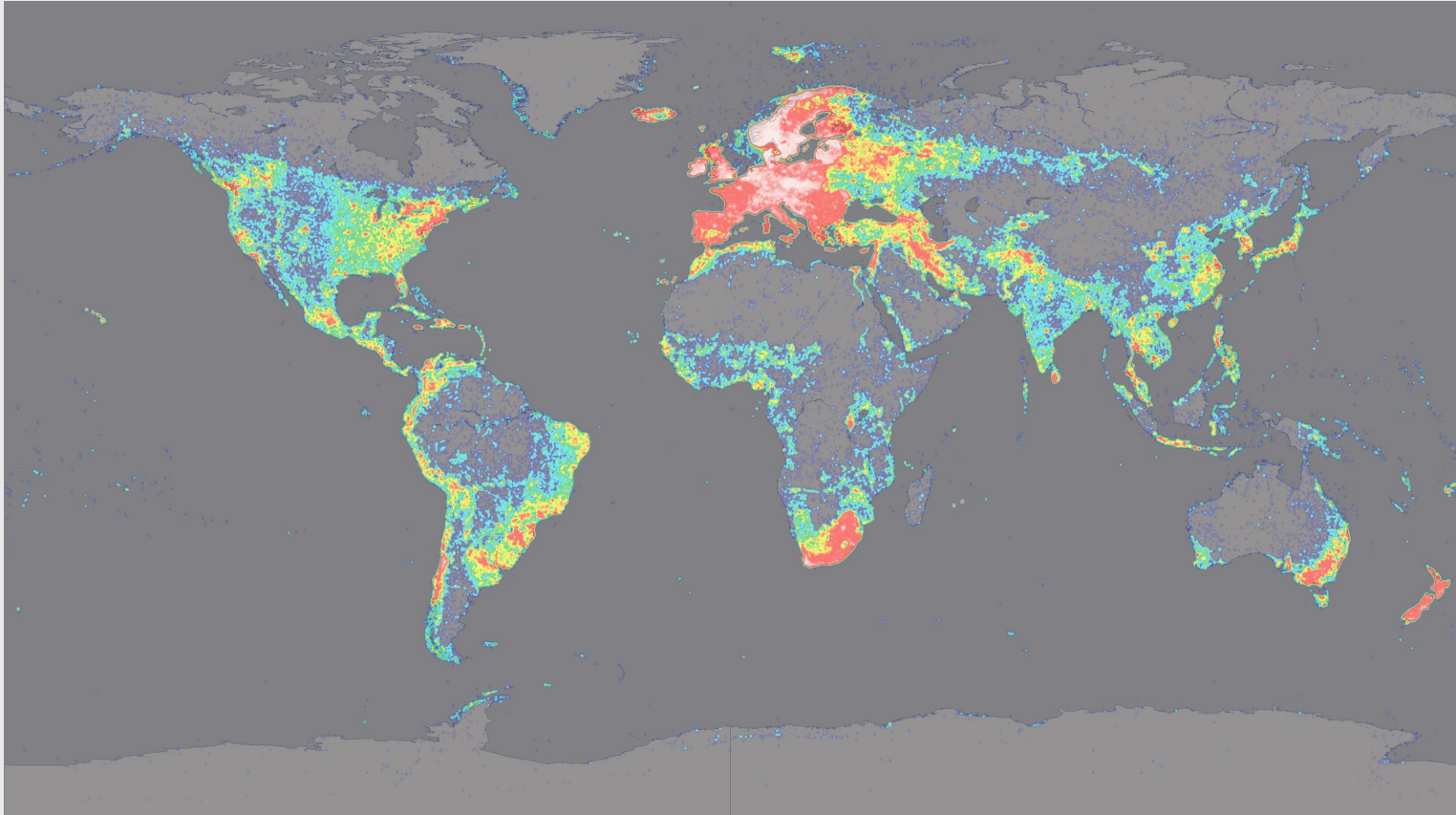
"The scale, spread and speed of change made possible by digital technologies is unprecedented, but the current means and levels of international cooperation are unequal to the challenge."

António Guterres, UN Secretary-General

UNICEF and the government of Norway are creating a collaborative process designed to facilitate the development, discovery, scalability, and use of digital public goods by anyone in the world at little or no cost.

Many DPG's serve to support the UN's 2030 Sustainable Development Goals.

Examples: Wikipedia, Moodle, Global Digital Library, DHIS and MET Norway Weather (Yr)

Norwegian
Meteorological
Institute

Norwegian
Meteorological
Institute

Who are we?

TMA   **MMD**   **WMO**

MET Norway   **NORAD**   **NORCE**

Weather services as Digital Public goods

Project description

establish relationships

gain user insight

share MET Norway experience

learn about use and need for weather information

plan for future part of project

Photo by Annie Spratt on Unsplash

establish api.met.no for use as DPG

dedicated access for NMHS's

expand with standardized metadata and user doc

protoptype for seasonal weather forecasts

1

2

Norwegian Meteorological Institute

Goal

Develop MET Norway weather as a digital public good for the delivery of user-centric weather forecasts locally in Africa

Building useful weather services

To help accelerate achievement of the UN's sustainable development goals (SDGs).

Help institutions, private companies and individuals in the partner countries leapfrog and reduce unnecessary duplication of efforts.

Weather services as Digital Public goods

Norwegian
Meteorological
Institute

success factors

SUFFICIENT HUMAN AND ECONOMICAL RESOURCES

COMMUNICATION SKILLS

BUILD GOOD, LASTING RELATIONSHIPS

ACCESS TO IT INFRA-STRUCTURES

DEDICATED NHMS's

Norwegian
Meteorological
Institute

future plans

build local data distribution service

build local frontends (different languages)

facilitate local start-ups

expand WP2 to deliver seasonal forecasts

online user forum

text generators, voice messages

establish and implement useful relationship

   between research and operations

use of local observations

Weather services as Digital Public goods

Norwegian
Meteorological
Institute

Thank you for your attention

Kristine Gjesdal
Jørn Kristiansen
Anders Sivle
Håvard Futsæter

MET Norway