# Commercialisation

Lessons learned from Dutch weather market





### Where information comes together...













# The team...







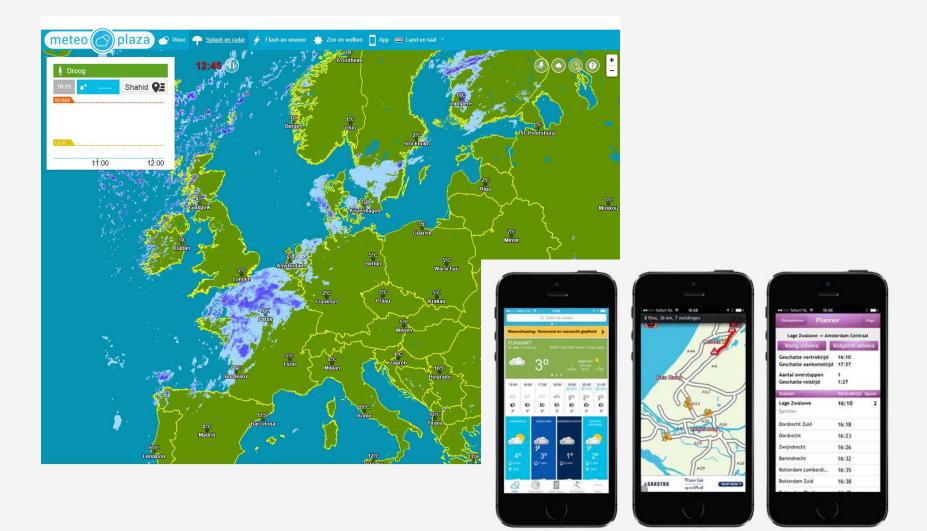
### History

- 1996: employed with KNMI
- 1998: separation of the commercial department of KNMI branch office Weathernews
- 2003: management Weathernews Benelux BV
- 2008: foundation Infoplaza BV
- 2009: weather-platform BtoB market and media
- 2010: launch of consumer brands
- 2012: launch of first mobile Apps
- 2014: further expansion consumer activities in Europe





### **Consumer activities**







### **Business to business markets**





















Collaboration National Weather Services and private market





## **Dutch market situation '80 – '90**

- The first private weather company in the Netherlands was founded in the late eighties.
- The Netherland was one of the first countries that realised that the industry would become stronger if there would be a healthy basis for collaboration between the government and the private sector.
- In ECOMET KNMI was also the first mover in free data policy.
- This has lead to a strong development of the weather market:

#### **'98**

- O 1 private weather company
- O Total market revenue 6 Mio Euro
- No free information for consumers

#### Today (15 years later)

- 15 20 private weather companies
- Total market revenue 30 Mio Euro
- Every consumer it's own weather forecast





# Situation at KNMI in 1998

- KNMI, founded in 1854, is an agency of the Dutch Ministry of Infrastructure & Environment
- O A long and rich history in weather forecasts for the general public; in 1951 it was one of the first Met Services in the world with a weather forecast on TV.
- In 1998 it had an total annual budget of about 45 million euro. Incomes:
  - Research and government contribution € 32 Mio
    Aviation € 10 Mio
    Commercial Activities € 3 Mio
- In 1999 KNMI decided to separate the commercial weather activities to further develop it with an international private company
  - Media (TV, newspapers and Radio)
  - Maritime sector
  - All land based services like Agriculture, Construction, Energy, Road Icing, etc.





#### **Effect of commercialisation in the Netherlands**

- The weather market was still in it's childhood
  - About 10% of KNMI's staff moved to a new private company
  - Taking over about € 3 Mio in revenue
  - At that point of time the company was hardly profitable
- O Development since then
  - In partnership with Weathernews Inc the commercial revenue doubled
  - Because of the transparent collaboration between KNMI and the market the total market revenue has grown from 6 to 30 Mio euro in 15 years
  - The number of private companies grew to 5-6 significant players, 10-15 smaller companies and a dozen successful weather apps
  - 3 Dutch players have developed into international players with branch offices in several European countries
  - Weather is in reach of every consumer and company and the number of innovative weather solutions is increasing day by day





## Today's core focus of KNMI

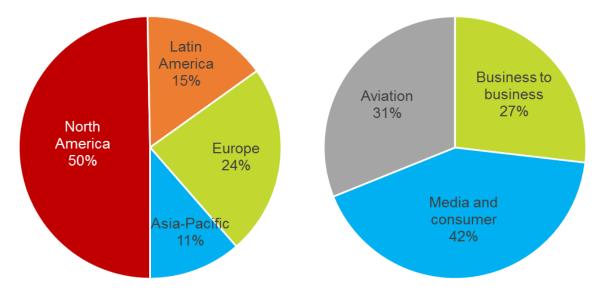
- Scientific research in the field of weather, climate and seismology
- The infrastructure of the Dutch observation network
- Representative for the Netherlands in international meteorological organizations, even representing the interests of the private sector
- Local responsibilities for public order and safety
  - Services for governmental bodies to support their tasks in the field of public order and safety
  - Weather forecasts and warnings for the general public
  - Weather forecasting for Dutch Aviation Authorities





### **European commercial weather market**

• The global market size of the forecasting industry is estimated at \$ 2 billion



- With a comparable GDP, the weather market in North America is 2 times bigger than the European market
- With 4,7% of the European GDP, the Dutch weather market would be estimated at \$ 14,5 Mio. In fact it is about \$ 30 - 35 Mio.
- It exists out of 50% Business to Business instead of the 27% worldwide...





#### **Lessons learned from this Dutch example**

- KNMI's role in the weather industry became much more clear by dividing public and private services
- KNMI has still the central role (authority) in meteorology in the Netherlands
- Over years there has been a growing collaboration between KNMI and private companies
- Thanks to partnering between KNMI and the private weather industry the market size has grown rapidly (faster in comparison to other European countries)
- Many commercial (front-end) services we see in Europe come from innovation of Dutch companies
- END conclusion: National Met Services are best in fundamental research and local development; the private sector can help to accelerate operational forecasting and services





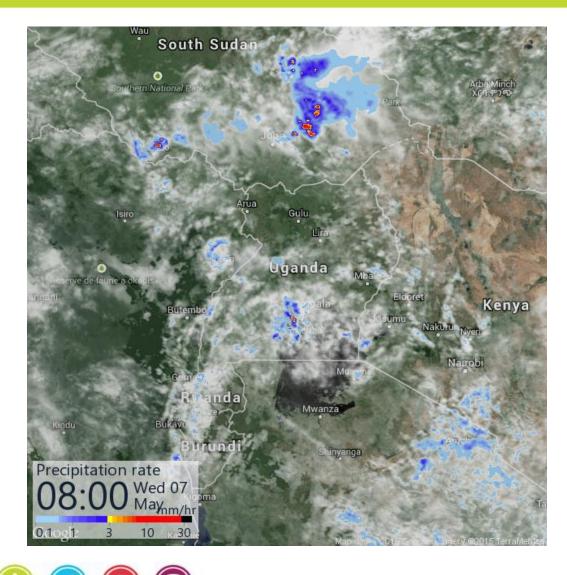
# How can NWS's and private companies collaborate to accelerate developments?







#### **Example collaboration NWS and private market**



#### Meteostat Second Generation

- KNMI's goal: generate high resolution climatological statistics for precipitation
- The development of operational (5 minutes) images of precipitation is not KNMI goal, but more or less a derived product
- This was one of the reason why we were able to develop this technique in close cooperation with KNMI
- This gives us a solution for all area's where qualitative radar information is not available



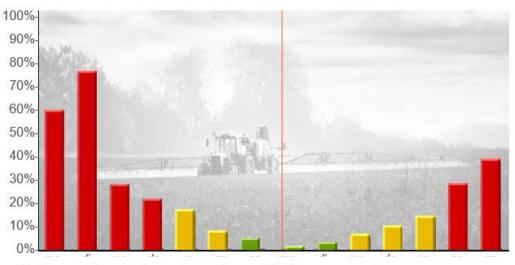
#### How NWS can benefit from private sector

- African NWS's can benefit from know-how, experience and many products and services the private sector has developed in the last decades.
- We can help you develop the basic infrastructure from observation to collection and enrichment of all kind of data sets.
- The private sector can help develop a commercial organisation. What skills are needed?
  - To understand several markets needs
  - To translate meteorological information into customers solutions
  - To package 'big data' into simple and clear presentation
  - Run an operational company with sales, risk-communication and customer support





#### An example of translating weather into a solution



Ziektedruk afgelopen week en volgende week

Schimmelbestrijding uitvoerbaar bij dit weertype?



A farmer is not interested in rain, humidity or wind. He wants to know what the effect is on the crops.

- We have developed disease pressure models for many crops.
- With a simple graph a farmer can easily see the risk for certain diseases in it's crops.
- With a red, orange, green coloured overview a farmer can find the best weather window to spray.



## **Recent projects in Africa**

#### eLeaf

Crop status based on satellite information. Involved in a agricultural projects in Ghana and Uganda.

Royal Haskoning DHV

'Floods and droughts Disaster Risk and Early Warning System for Ghana.' We provide precipitation images and possibly an HR model for Ghana.

