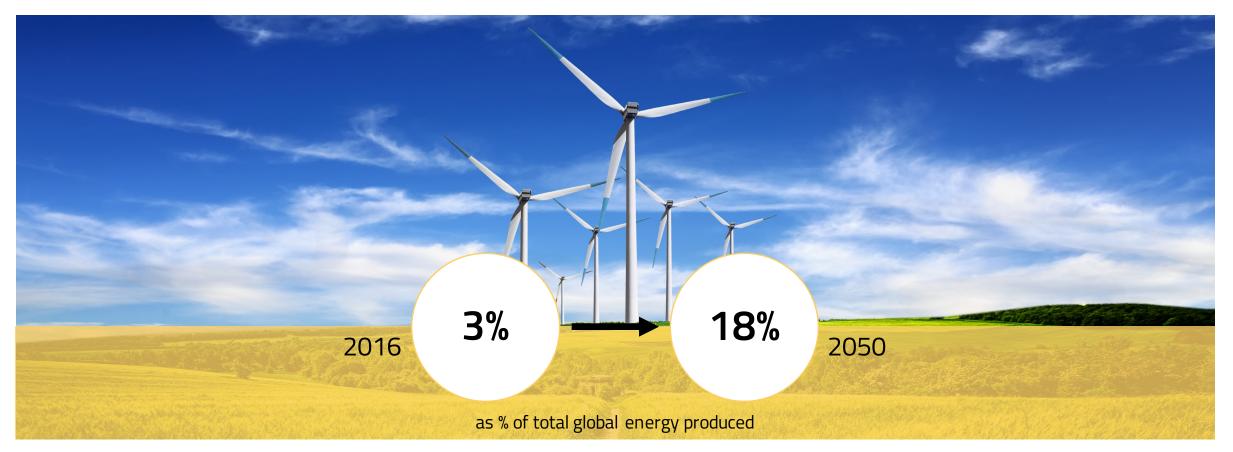
Weshare

Today weather data for tomorrow global challenges

Alessandro Fusaro Arslan Arif Domenico Lopriore Gianluca Montanari Maite Labairu-Trenchs Maria Luce Lupetti Michela Tonda June 20, 2016



CONTEXT



And in 30 years, **WIND** will be the main renewable energy source

but it is not easy to **predict** and this can cause instability to the grid



The inaccuracy of wind forecasting reaches peaks up to 20%

impacting





GLOBAL Unexploited amount of green energy

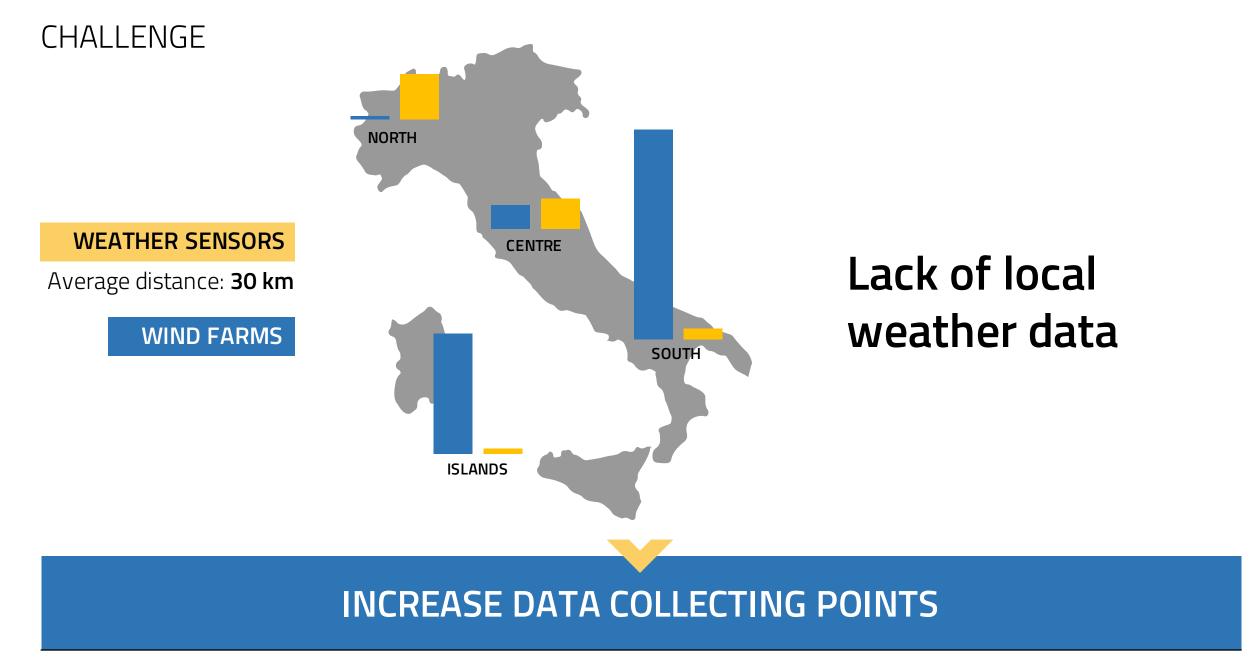
ENERGY BUSINESS

Higher production costs



CITIZENS More expensive bills



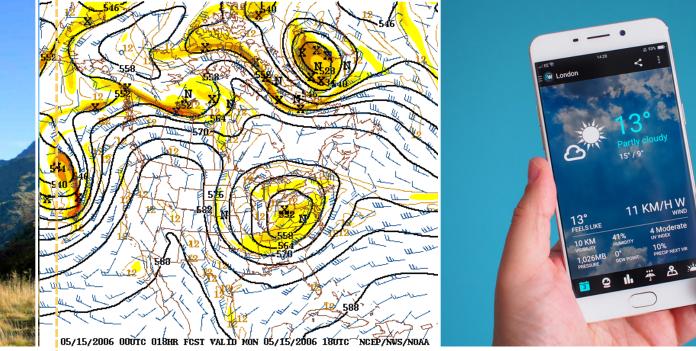




WEATHER BUSINESS: HOW IT WORKS



060515/1800V018 NAM 500 MB HGT, GEO ABS VORTICITY



DATA COLLECTORS

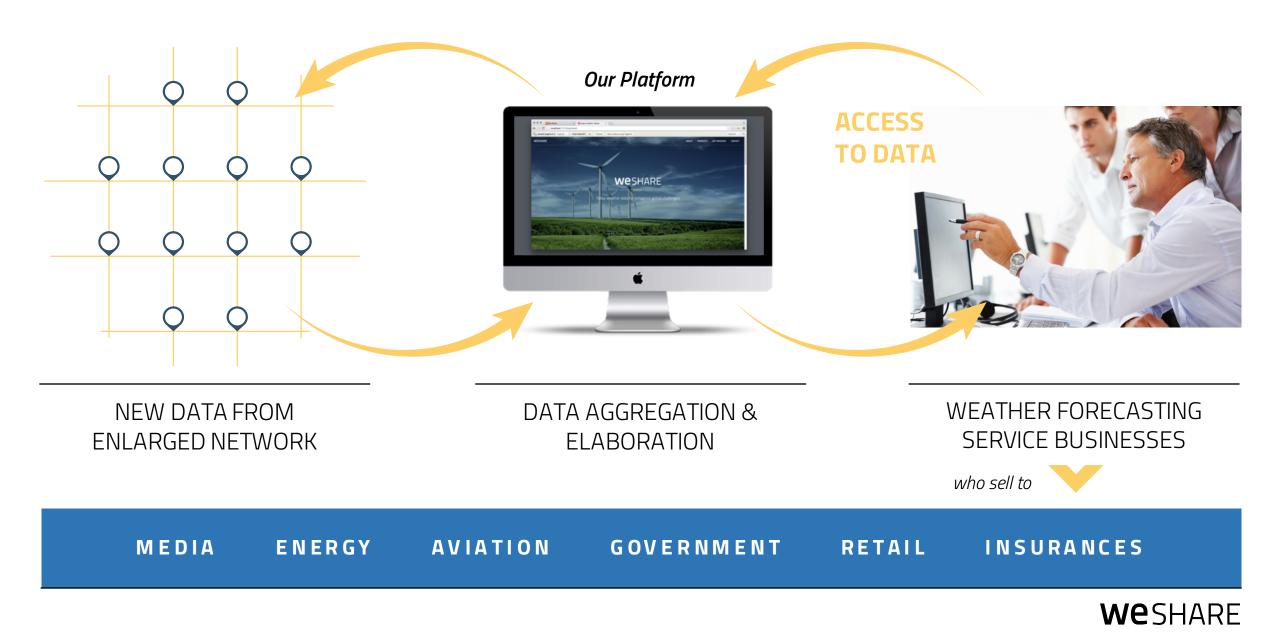
WEATHER FORECASTING COMPANIES

FORECAST USERS

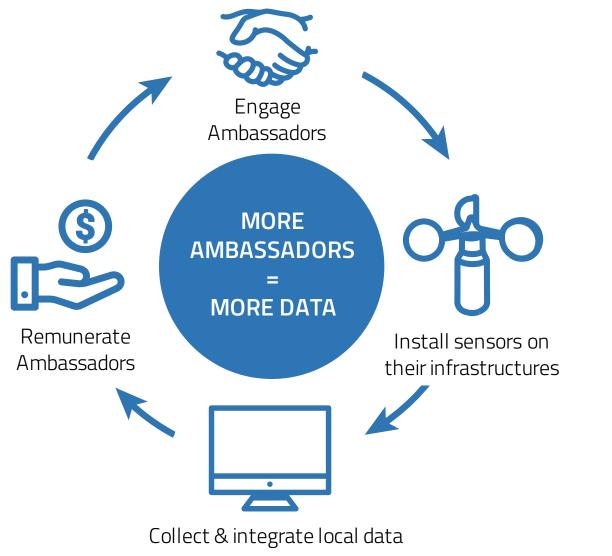


WeSHARE

OUR SOLUTION



AN ENLARGED NETWORK OF AMBASSADORS



Our Ambassadors



SCHOOLS Educational Programs







INSTITUTIONS Business partnerships

Weshare

EDUCATIONAL PROGRAM

Involve and sensitize younger generations on the importance of WEATHER, DATA SHARING & their effects on SOCIETY.

Short term activities
THEORETICAL LESSONS
MAKING WORKSHOPS
SCIENTIFIC WORKSHOPS

Long term activities

PERMANENT EDU-LAB

PERMANENT WEATHER DATA ACQUISITION

Maintenance & Data Collection by WE-Share





OUR PRODUCTS

L-Share

Full year access to data at local level (2.500km²) € 1,200/year

R-Share Full year access to data at regional level (22.500km²) € 3,500/year

N-Share

Full year access to data

€ 6,500/year

at national level

6 "

TYPES OF SUBSCRIPTIONS

Live access to real time and historical weather data Download formats JSON CSV MySQL PostgreSQL Atom

We-Share gives businesses access to a crowdsourced platform with

plenty of local weather data to make **more accurate forecasts**

 High resolution actual data (15x15 km)
 Structured data
 Gap-free
 Hourly and daily

 WeSHARE

OUR ROADMAP

20 WEEKS

PILOT PROGRAM: Schools as source of weather observation

20 MONTHS

Exploiting existing infrastructures as new sources of weather observation

20 YEARS

Every existing infrastructure acting as a weather eye



WeSHARE *Crew*



Alessandro Fusaro

Media &

Communication

Michela Tonda

Industrial Engineering Electronic Engineering

Arslan

Arif

Gianluca Montanari

Mechanical

Engineering

Aerospace Systems Engineering

Maite

Labairu-Trenchs

Domenico Lopriore

Management

Engineering

Industrial Design & Communication

Maria Luce

Lupetti

Thank You! Chief Content of the second secon



Appendix

Carl all all a

EDUCATIONAL PROGRAM

Topics

Climate, Weather Forecasting & Global Impact

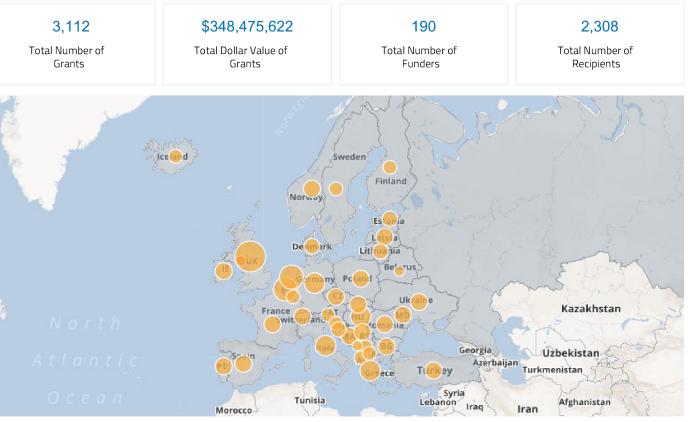
Electronics, Programming & Digital Fabrication

Data Analysis, Mathematics & Physics



National & European Relevance of these kind of activities

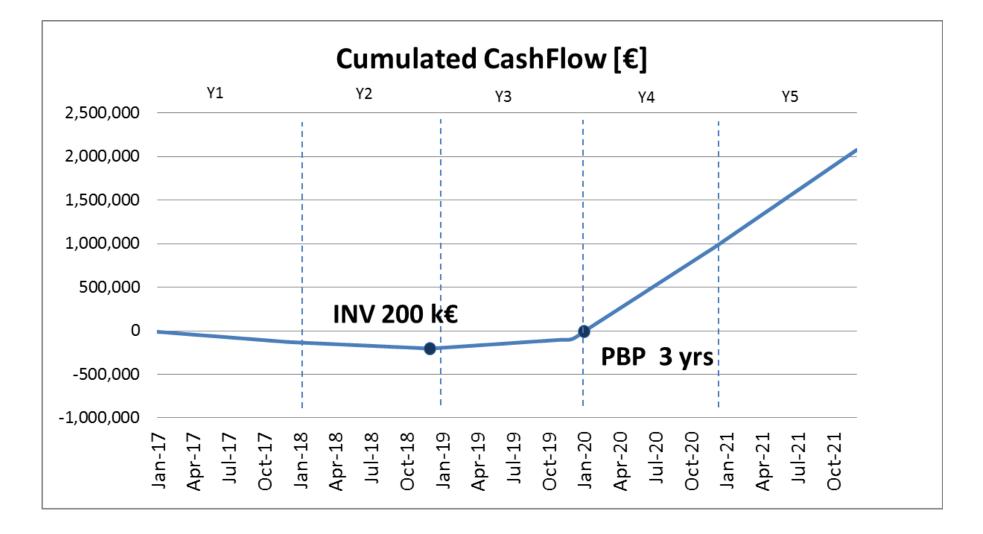
la buona SCUOLA <mark>digitale</mark>





ECONOMICS

- Ambassadors compensation 200 to 500 €/year
- 2000 to 3000
 Customers by Y5
- 1 year free trial for all customers



BENEFICIARIES



MEDIA

From television to online media, the weather data that we-share provides will support the generation of local and accurate weather forecasts to showcase in captivating info-graphics.



ENERGY

The We-Share sensors network offers is strategically located on the national ground to support critical choices related to energy trading, green energy forecasting and to adapt to the development of smart grids and an increased spread towards the generation of energy through distributed generation plants.



AVIATION

Our weather data platform will support the generation of bigger areas forecasts around the airport ground, with an increased number of data coming from the nearby area and support safety during take-offs and landings.



GOVERNMENT

Our sensors, located uniformly on the National ground, will allow Governments to monitor the weather situation in the vastness of a Country and forecast natural disasters.



RETAIL

More accurate weather data will support retailers understand how and when their customers will need the products they are providing.

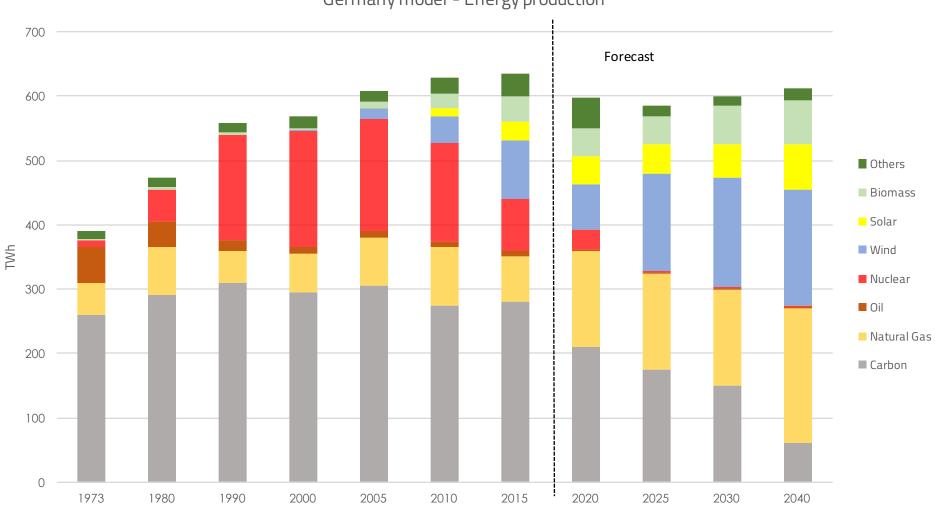


INSURANCES

The network will support insurance companies to forecast more accurately the damages of their clients' goods, increasing the safety of the properties of their clients and improving business intelligence.



ENERGY PRODUCTION TREND: GERMANY MODEL

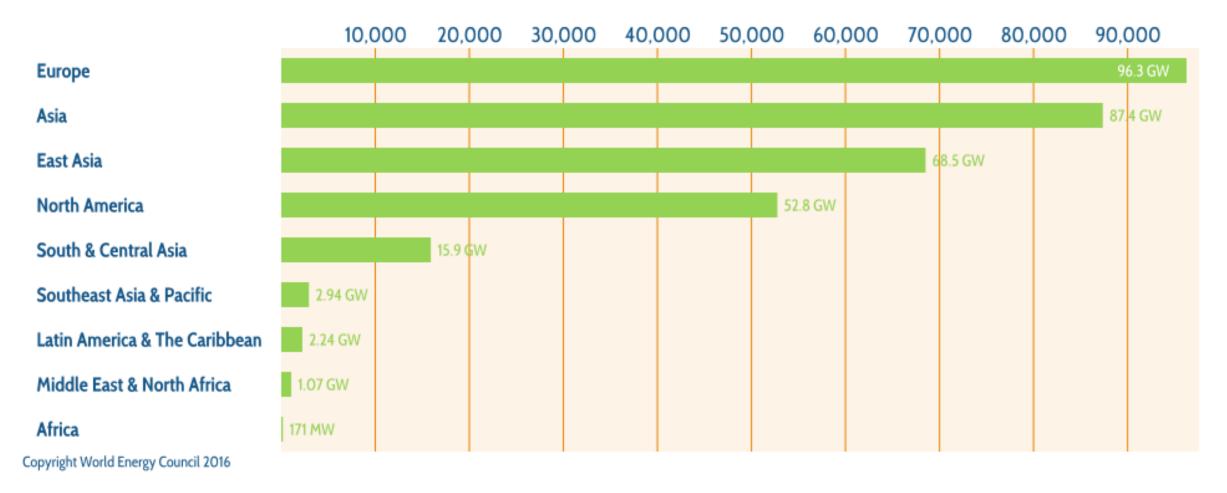


Germany model - Energy production



WIND INSTALLED CAPACITY, 2016

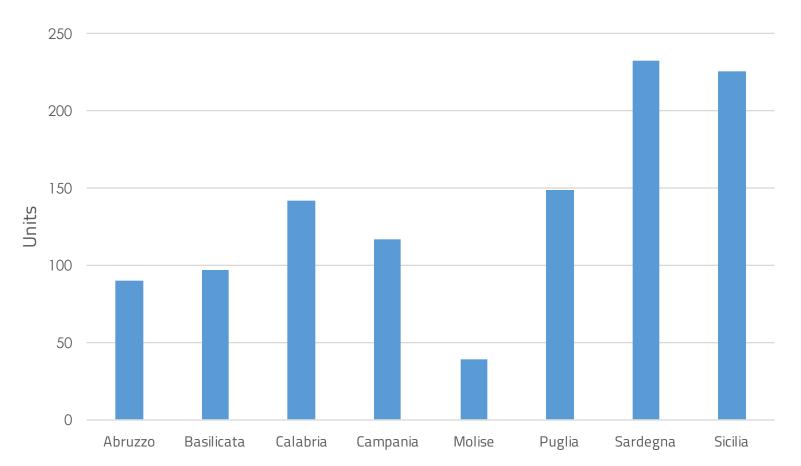
Wind installed capacity by region





ACTION PLAN

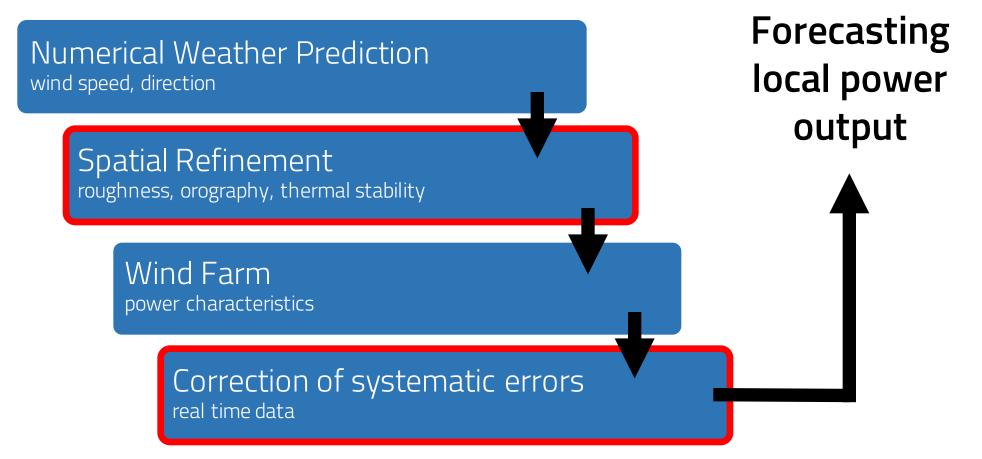
Weather stations to install potentially



VISION of installing about one thousand of weather stations in schools in regions where the number of aereogenerators is considerably higher than that one of the stations

ADDED VALUE

WIND POWER FORECASTING





COMPETITORS

Forecasting **MeteoGroup** Our competitors have mobileservices The based platforms \rightarrow Low reliability Weather and robustness of data AccuWeather Company WeShare value proposition: OpenWeatherMap Reliable weather data thanks to a reliable infrastructure MeteoGroup Crowd-sourced Weather stations/ data Satellite data Source of data **Met Office We**SHARE **WeatherSignal** ECA&D Sunshine WEATHER UNDERGROUND netatmo Weather database EUMETSAT Type of offering



POTENTIAL COSTUMER





CHALLENGE

