



DAIRY 4 FUTURE FINALE CONFERENCE  
« TACKLING THE CHALLENGES OF  
THE ATLANTIC AREA DAIRY SECTOR »



# Wich dairy systems and wich innovations in the atlantic Area?

## The project's network of pilot farms and dairy systems

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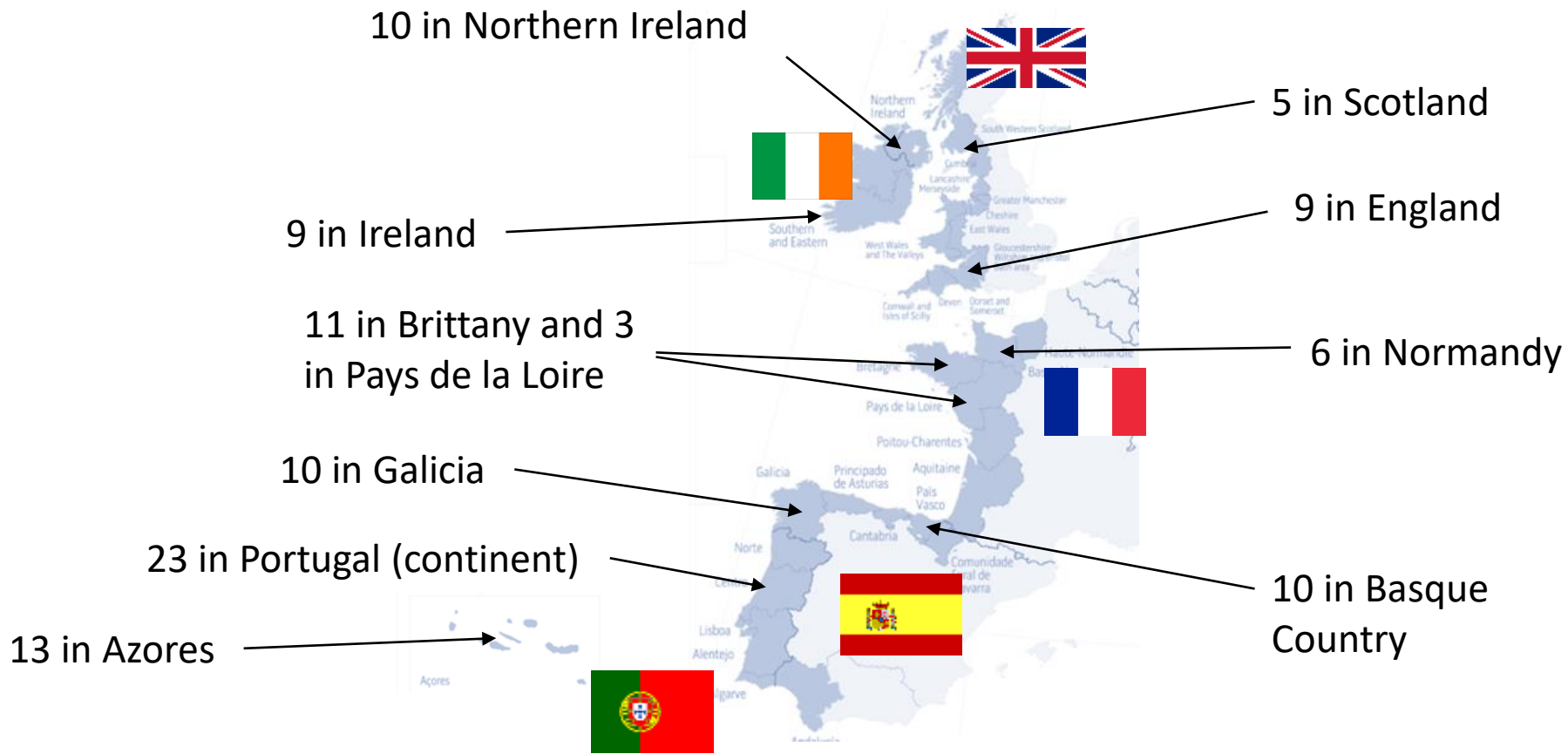
27<sup>th</sup> September 2022

# Program

- The D4F pilot farm network
- Discussion with farmers and advisors about the main dairy systems in the Atlantic Area



# A network of more than 100 pilot farms in the Atlantic area



# Dairy Farms Network in few facts and figures



> 12 800 Ha dedicated to milk production

- 8 600 ha Grasslands
  - 4 200 ha Arable Land
- 70 % of grasslands in the agricultural area*



Around 19 400 Cows



154 000 tons of milk produced per year



380 farmers and hired labour

# A huge diversity

## Number of cows



From 24 cows (in Azores) to 1 039 (in Scotland)



## Agricultural area



From 17 ha (in Azores) to 945 ha (in Scotland)



## Stocking rate per UAA (dairy cows)



From 0.8 / ha (in Brittany) to 5.8 / ha (in Portugal)



## Labour (family + hired)

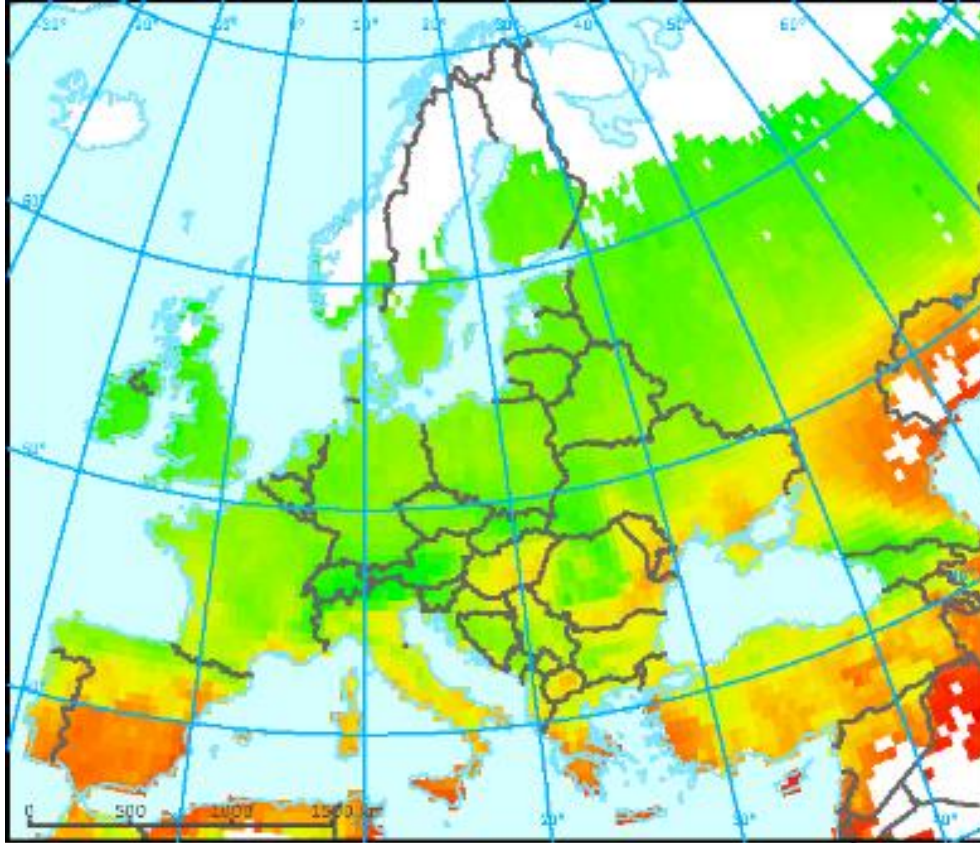


From 1 (all over the region) to 17 (in Basque Country)





# Favourable conditions for fodder production but still a different climate



**Present (1971–2000) water limitation of crop primary production in Europe under rain fed conditions**

Water limitation index



0 0.2 0.4 0.6 0.8 1

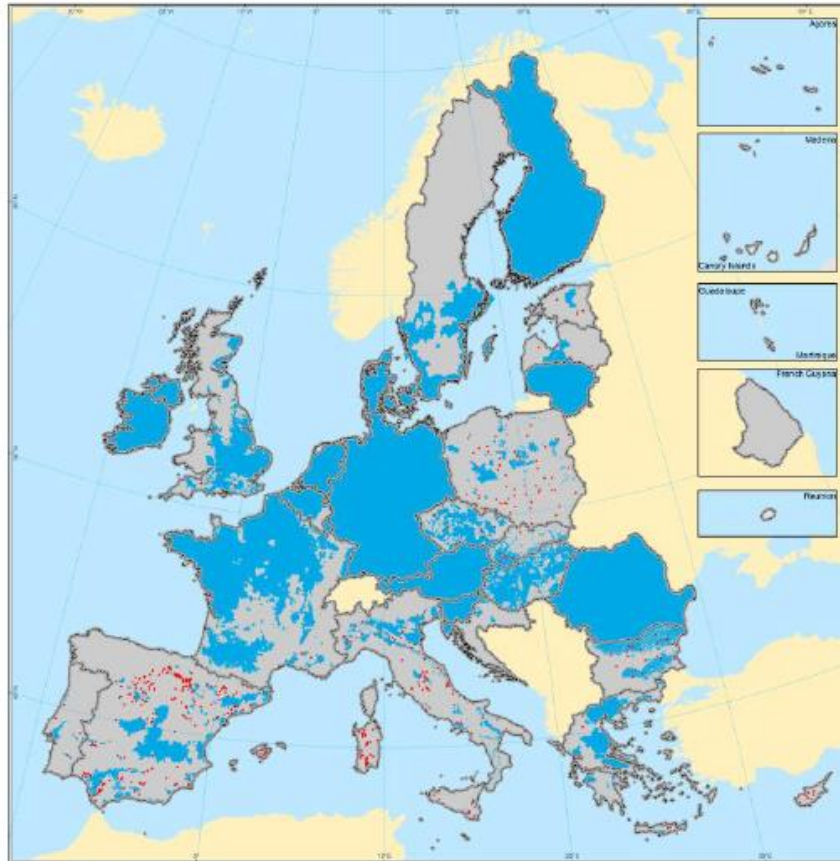


Outside coverage

European Environment Agency



# Different environmental constraints



## NITRATES DIRECTIVE EU-28

REPORTING PERIOD 2012-2015

## EU28

### GROUND WATER AVERAGE NITRATE CONCENTRATIONS

• Ground water  $\geq 50$  NO<sub>3</sub> mg/l outside NVZ

### Nitrate Vulnerable Zones

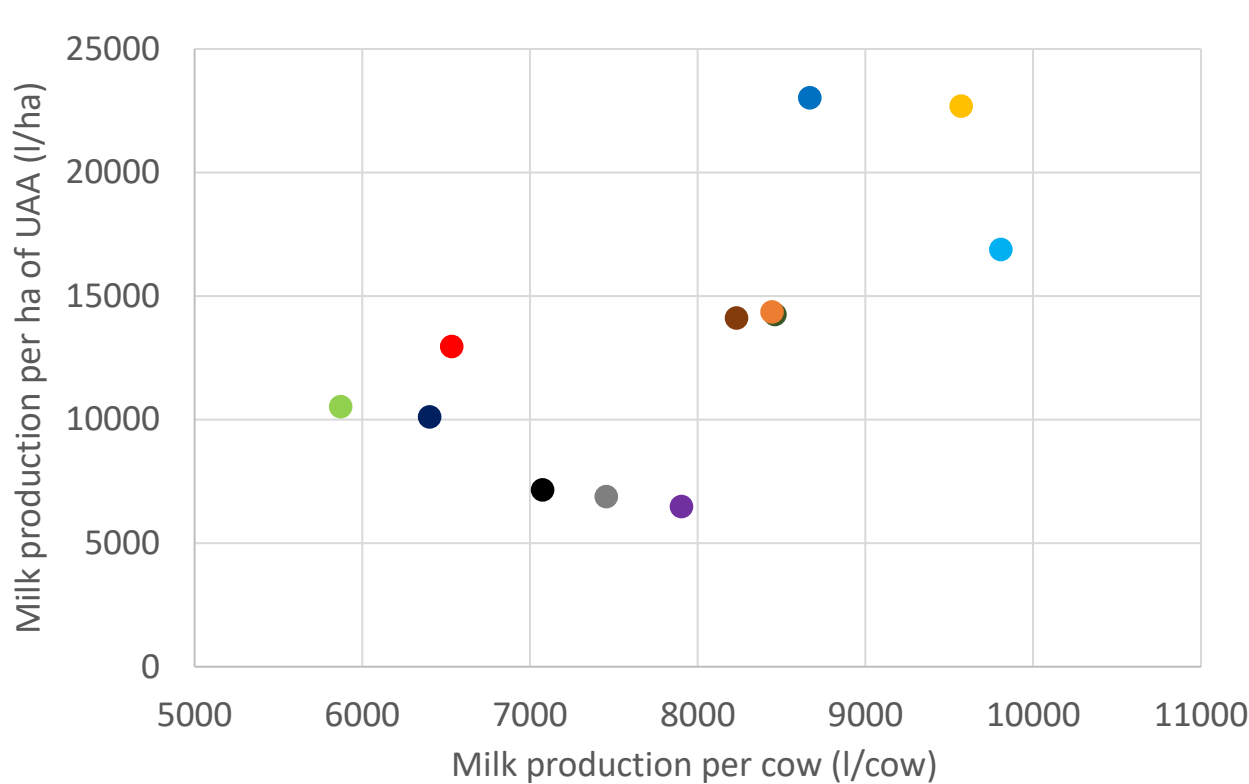
■ NVZ designation

0 200 400 Kilometers

Source: DG ENV Member States reports on Nitrates Directive Implementation  
Coordinate Reference System: ETRS89 Lambert Conformal Equal Area  
Cartography: JRC JTI (2017)  
Data source: GSDO - Sentinel (European Commission)  
Administrative boundaries: © EuroGeographics



# A variable milk productivity across Regions



Legend :

- Scotland
- Northern Ireland
- Ireland
- South West England
- Normandy
- Brittany
- Pays de la Loire
- Basque Country
- Galicia
- North Portugal
- South Portugal
- Azores



# Warning

This pilot farms network gives an overview of some dairy systems but does not propose a representative sample of current dairy production in each region or countries.

Indeed, the 3 main dairy systems found in the Atlantic Area – Indoor systems, grazing systems and mixed systems – are represented in the Dairy-4-Future pilot farms network

# The 3 Main Dairy Systems

Based on the time spent indoors / outdoors, not directly on the feeding system

## Indoors

Few days outside

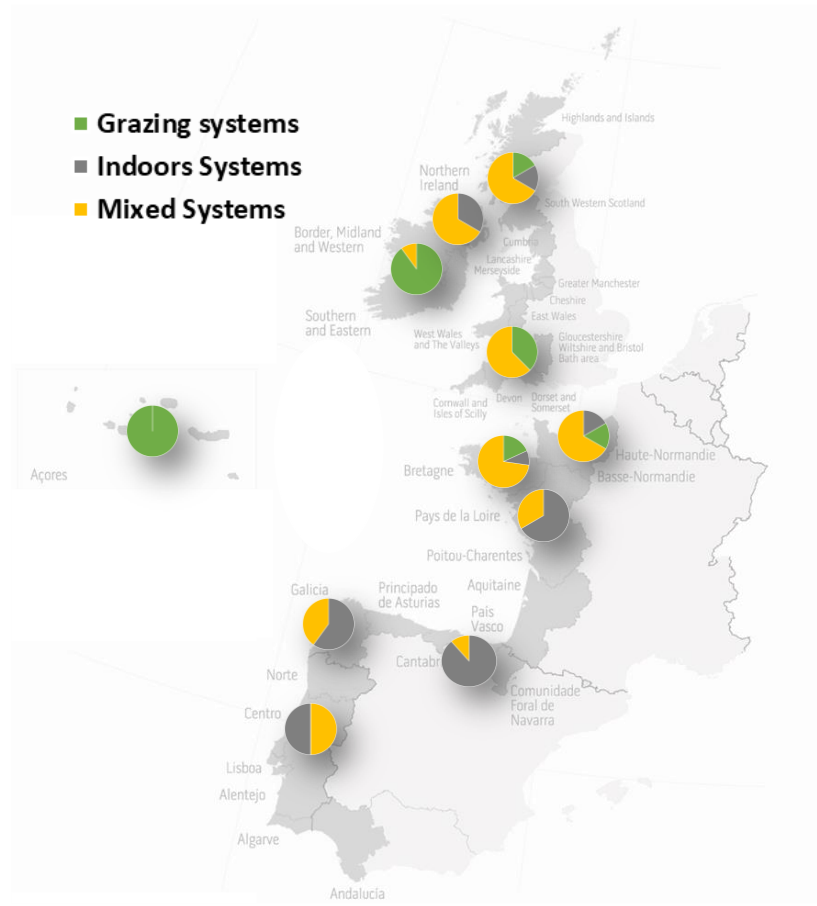
## Mixed

Grazing < 60% days throughout the year

## Grazing

> 60% days grazing throughout the year

# Where to find these dairy systems?



# How to describe these systems ?

Short discussion with farmers and advisors !

Around 4 main thematic:

- The herd : breed and genetic selection ?
- The diet - feeding management according to availability of resources ?
- Buildings and equipments – Type of buildings, milking system, mechanization, daily work ?
- What developments and innovations are expected in the future?



# Thank you for your attention



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27th september 2022