

**European Regional Development Fund** 

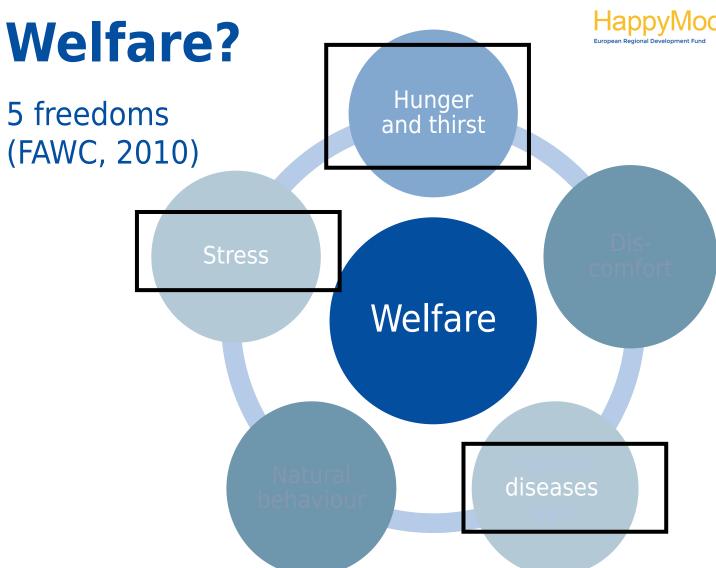


## HAPPYMOO PROJECT www.nweurope.eu/happymoo

To roll-out monitoring tools to screen the welfare of dairy cows. To provide alerts about the freedom from disease, hunger and stress.









### **Background**



Different systems exist to score welfare of dairy cows (Welfare Quality®, ANI, BWAP i.a.)
BUT:

- Herd level
- Only once
- Farm visit necessary → costly
- → Need for fast, recurrent and cheap alternatives
- → HappyMoo project



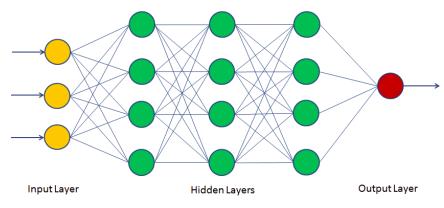
## HAPPYMOO PROJECT www.nweurope.eu/happymoo

- 42 months: 25/10/2018 24/04/2022
- 13 partners in 7 countries
  - ✓ BE, FR, LU, DE, IE, UK, CH
  - √ 8 « farmers' organizations »
  - ✓ 2 research centres, 1 university
  - √ 1 IT company
  - ✓ 1 pilot milk lab
- Total budget: €4,079,400
- ERDF (60%): €2,447,640



# Work Package 1, 2 & 3 Tasks



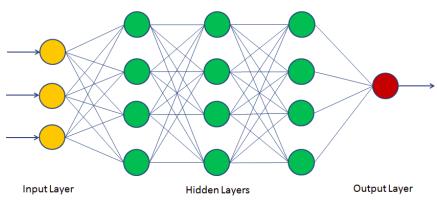




#### **Screening animals**

- ✓ Freedom from disease
- ✓ Freedom from hunger
- ✓ Freedom from stress







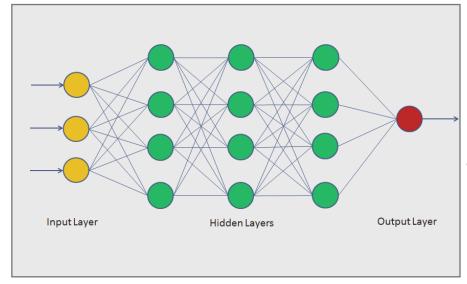
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WP1 - HAPPY DATA

Definition of hunger, stress and disease indicators







#### **Screening animals**

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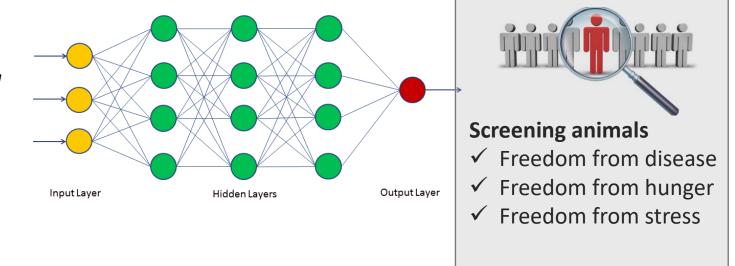
**WP2 – HAPPY TOOLS** 

**MACHINE LEARNING** 



Warning index linked with potential economic losses or savings (e.g. antibiotics)





**WP3 – HAPPY USER** 

HAPPYMOO TOOL (Web interface)



### **Partnership**



























