

# RES4LIVE

## ENERGY SMART LIVESTOCK FARMING TOWARDS ZERO FOSSIL FUEL CONSUMPTION



### PROBLEM STATEMENT

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**Intensive Livestock Farming** is one of the most **energy consuming** sub-sectors of agriculture, mainly based on fossil fuels use.

Both electricity and thermal energy is required for cooling-heating of the indoor environment, running of equipment and tractors, lighting, and ventilation.

**More sustainable livestock production** and de-fossilising energy needs in husbandry facilities emerges as **crucial aspects within EU**.

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### OBJECTIVES

The strategic objective of **RES4LIVE** is to **develop and bring into the market:**

**INTEGRATED, COST-EFFECTIVE & CASE-SENSITIVE RENEWABLE ENERGY SOURCES SOLUTIONS, TOWARDS FOSSIL-FREE LIVESTOCK FARMING**

**Sustainability** of the farms' operation

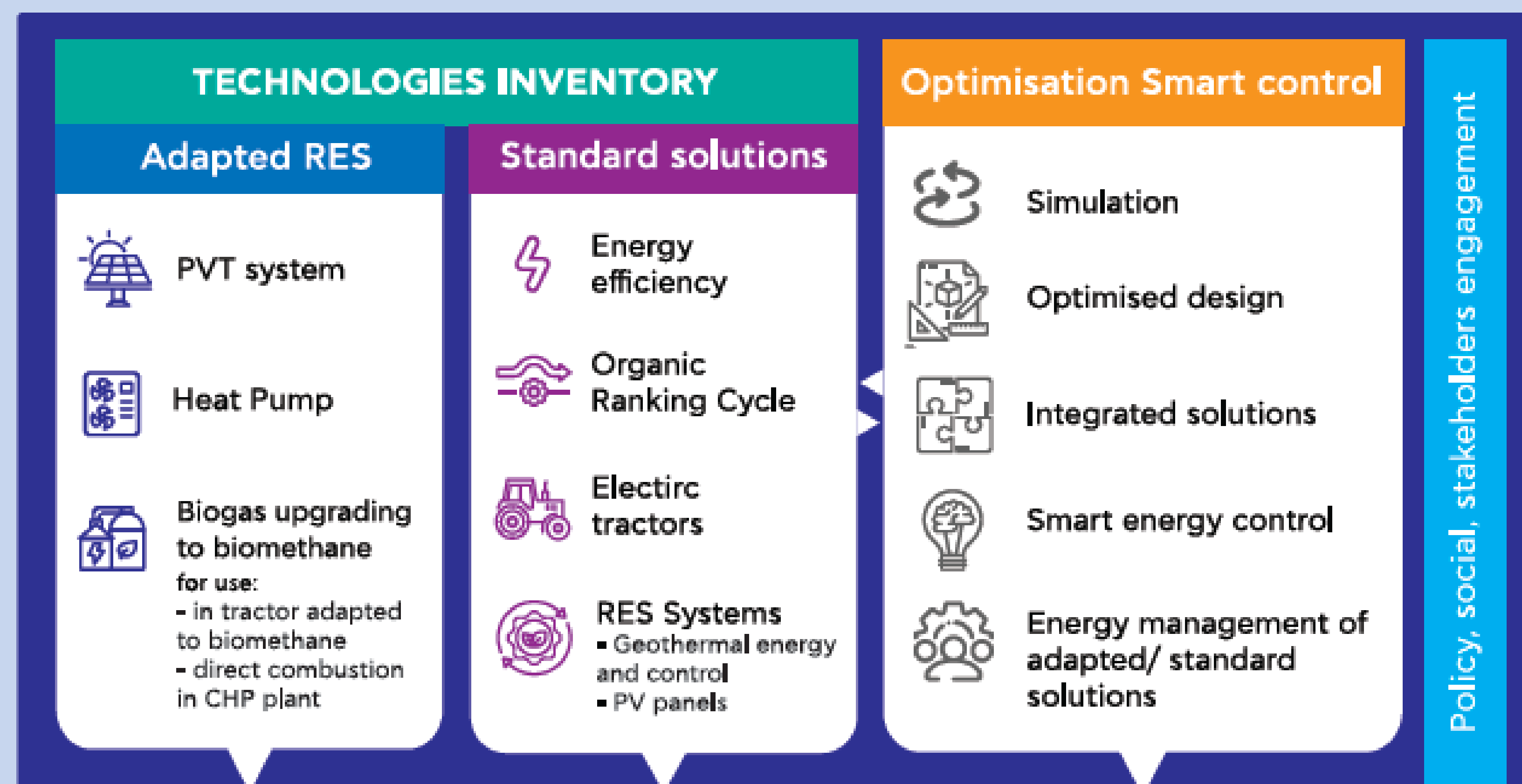
**Increased productivity**

**Superior thermal comfort** of the animals

**Minimum climate change impact**

### PROPOSED SOLUTION

**RES4LIVE** will be a first attempt for **100% replacement of the fossil fuel consumption in the industrial livestock farming sector**, with the aid of cost-effective, innovative RES (Renewable Energy Sources) and Smart Control technologies.

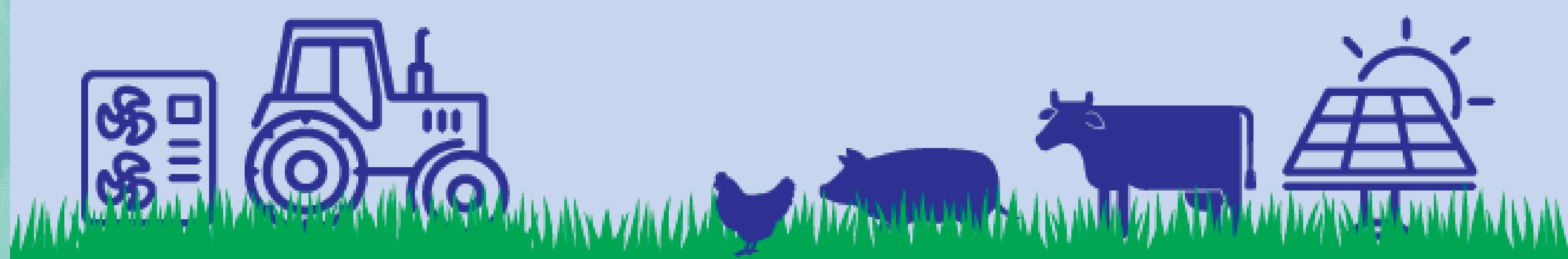


Demonstration in 4 plot farms technical/ economic/ environmental assessments

Integration/ replication, co-design with end-users, cost-effective solutions, communications, ...

### FOSSIL - ENERGY FREE FARMING

Dedicated, optimal designs combined with energy efficiency and other solutions will be demonstrated in **4 pilot farms in Belgium, Italy, Germany and Greece**,



hosting **cows, chickens and pigs** and evaluated technically, economically, environmentally and socially.

### EXPECTED IMPACT



**Creating forefront knowledge** in the application of renewable energy solutions in livestock farming



**Supporting job growth and competitiveness** in the EU livestock industry



**Improving EU citizens' quality of life** by drastically reducing the livestock sector's environmental footprint

### CONTACT



[www.res4live.eu](http://www.res4live.eu)  
RES4LIVE



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### Contact:

Dr Thanos Balafoutis

Senior Researcher

[a.balafoutis@certh.gr](mailto:a.balafoutis@certh.gr) |

+30 2311 257651 | +30 2311 257652



**CERTH**

CENTRE FOR  
RESEARCH & TECHNOLOGY  
HELLAS



Institute for Bio-economy & Agri-technology

iBO | CERTH

6<sup>th</sup> km CharilaouThermi Rd.

57001 | Thermi | Thessaloniki | Greece

[www.ibo.certh.gr](http://www.ibo.certh.gr) | [www.certh.gr](http://www.certh.gr)