



ROMANIAN CLUSTER FOR  
INDUSTRIAL HEMP

# INDUSTRIAL HEMP IN ROMANIA.

## CONTEXT

## HERITAGE IN ROMANIAN INDUSTRIAL HEMP

- **TRADITION:**
  - **BEFORE 1989 TOP 3 GLOBAL HEMP EXPORTER, WITH OVER 55,000 HECTARES** CULTIVATED WITH INDUSTRIAL HEMP IN REGIONS THAT KEPT TRADITION, CURRENTLY ON MUCH SMALLER LANDS
  - **CURRENTLY 11 LOCAL LICENSED VARIETIES**, REGISTERED IN THE EU CATALOGUE
  - **SCALABLE LAND FOR HEMP** – TODAY LESS THAN 2000 HECTARES, BUT CAN GO UP EASILY
- **RESEARCH HAS BEEN GETTING ON:**
  - **2 STRONG RESEARCH UNITS IN HEMP** – WEST AND NORTH EAST OF ROMANIA, THE MOST TRADITIONAL REGIONS – CONTINUE THEIR EFFORTS FOR NEW IMPROVED BREEDS, METHODOLOGIES
  - **UNIVERSITIES JOINING EFFORTS IN RESEARCH INNOVATION** FOR HEMP BASED PRODUCTS AND TECHNOLOGIES – TEXTILES AND COSTRUCTION MATERIALS



# HEMP BASED CONSTRUCTION MATERIALS



## ALL HEMP - STONEHEMP

- **STARTED IN 2017**
  - Hemp and lime insulation based on spraying technology
  - Partnerships with local producers of hemp and lime
    - HempFlax Europe
    - Carmeuse Holding
  - Experience built up all these years in working with raw materials of various characteristics
    - Granulation
    - Humidity
- **CURRENT PORTFOLIO - 13 PROJECTS**
  - 6 houses - Romania (3), Slovenia (1), Germany (2)
  - 1 Warehouse insulation - Germany, Zeller Muehle Huber
  - 1 Community Center - France, Garigue de Saint Euladie
  - 5 Existing houses insulation - Switzerland (1), Germany (4)



# HEMP BASED CONSTRUCTION MATERIALS



## **ALL HEMP - STONEHEMP**

- **CERTIFICATION GREEN HOME**
  - Certificate GH0000024-1.0/19.03.2021
  - Residential project in Sibiel, Sibiu County - All Hemp project
- **EUROPEAN CERTIFICATION**
  - EN 998-1 - Prüfungsbericht 69/BA-18/PB/Sgm - MPA Stuttgart
- **FIRE TEST CERTIFICATION - B-S1, d0**
  - The hemp insulation contributes to a fire to a very limited extent
  - The smoke production is very limited and
  - It does not produce flaming droplets
- **Collaboration**
  - **Germany - Bafa GMBH, HanfHouse**
  - **France - Akta SAS**



# HEMP BASED CONSTRUCTION MATERIALS



## ALL HEMP - STONEHEMP

- **DEVELOPMENT PLANS**

- Expand the technology and staff
- Partnerships with the Cluster Members to:
  - Promote this activity
  - Grow the interest at regional levels for hemp and lime insulation

- **FAVORABLE CONTEXT:**

- NATIONAL AND REGIONAL PROGRAMS WITH EUROPEAN AND NATIONAL FUNDS UNDER PREPARATION AND CONSULTATIONS TO SUPPORT ENERGY EFFICIENCY INCLUDING THROUGH USE OF NATURAL CONSTRUCTION MATERIALS FOR GREEN HOUSES, BOTH RESIDENTIAL AND PUBLIC BUILDINGS.
- EDUCATION PROGRAMS FOR AGRICULTURAL SCHOOLS
- DEMONSTRATION PROJECTS WITH LOCAL AUTHORITIES FOR SOCIAL PURPOSES – SCHOOLS, MEDICAL CABINETS, CITYHALLS

- **CANEPARO - Cluster setup in 2022** of various actors in various segments of the hemp supply chain in Romania
- Plans to collaborate to promote the hemp based construction materials towards construction companies, authorities and end-users.
- Plans to promote to the general public the advantages of the hemp houses and quality of life in such living spaces.
- Plans to position the hemp based construction materials in the context of the necessary decarbonation of the construction industry.



# THANK YOU!

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