

# HORIZON 2020

## HEALTH PARTNERING DAY 2017

HEALTH, DEMOGRAPHIC CHANGE & WELLBEING



7 DECEMBER 2017, BRUSSELS

*Session 2: Health-related topics (ICT, SSH, Food Security, Climate, Cybersecurity)*

*INNOVATING THE PRESENT,  
IMAGINING THE FUTURE*

# VERTECH GROUP

[www.vertech-group.com](http://www.vertech-group.com)

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# What do we do?



- Vertech is a **French environmental engineering** with business focus on high-tech environmental engineering and innovation business development.
- Three main business operations:
  1. High-Tech Environmental Engineering.
  2. International R&D management.
  3. Market Research and business development.

- Vertech is full member of:  **Bio-based Industries Consortium**



- More than 10 years of experience
- Currently participating in 16 H2020 projects

# Ongoing H2020 projects

## ENERGY



**CH2P** - Cogeneration of hydrogen, heat and power using solid oxide based system fed by methane rich gases



**SOCRATCES** - Solar Calcium-looping integration for Thermo-Chemical Energy Storage

## WASTE & CIRCULAR ECONOMY



**CLOSEWEE** - Solutions for EEE recycling: pre-processing high-grade plastics recycle critical raw materials recovery



**ECOBULK** - Circular Process for Eco-Designed Bulky Products and Internal Car Parts

## INDUSTRY



**KARMA2020** - Industrial Feather Waste Valorisation for Sustainable Keratin based Materials



**PreCoM** - Predictive Cognitive maintenance Decision Support System



**NOVUM** - Novel manufacturing technologies for cellulose-based electrical insulation components

## BIOPROCESSES



**VALUEMAG** - Valuable Products from algae using new magnetic cultivation and extraction techniques



**LigniOX** - Lignin oxidation technology for versatile lignin dispersants



**ECOxy** - Bio-based recyclable, reshapable and repairable fibre-reinforced Epoxy composites

## WATER



**AquaNES** - Synergies in combined natural and engineered water treatment systems

## FOOD



**NANOPACK** - Controlled release of active antimicrobials in food packaging applications

## MATERIALS



**JOIN'EM** - Join of copper to aluminium by ElectroMagnetic fields



**SUNPILOT** - Subwavelength Nanostructure Pilot



**INNPIPER** - Innovative and Smart Printed Electronics based on multifunctionalized Paper



**DECOCHROM** - Decorative Applications for self-Organized Molecular Electrochromic Systems

# VERTECH capabilities in R&D projects

What we usually do in projects:

- ✓ **Economic feasibility:** Life Cost Cycle Assessment (LCC) → CAPEX and OPEX.
- ✓ **Environmental repercussions:** Life Cycle Assessment (LCA) → impacts and benefits.
- ✓ **Social analysis:** Social Life Cycle Assessment (S-LCA) → socio-economic impacts.
- ✓ **Legal, regulatory and health and safety studies**
- ✓ **Risks assessment:** identification and quantification, contingency and mitigation plans.
- ✓ **Exploitation of results:** market assessment and business strategy.
- ✓ **Dissemination of results**

## TRANSVERSAL ACTIVITIES

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