



- Horizon Europe Partnership
  - Pınar Kasaplar Özkal, PhD
- Kansai Altan Boya Sanayi A.Ş.  
(KABS)



- Kansai Altan Boya Sanayi ve Ticaret A.Ş. (KABS)
- Izmir, Turkey
- Research and Development Center  
Automotive OEM, Automotive Components,  
General Industry and Protective Coatings, Color  
and Polymer RnD Laboratories
- M-ERA.NET Call 2020 Project Partner



- KABS expertise and partnership offers;
- Manufacture of paints, coatings and related materials, including functional coatings (anticorrosive coatings, anti-scratch coatings, anti-microbial coatings, etc.) and novel functional additives,
- manufacturing processes for higher efficiency and throughput and resource efficiency are the topics of interest.
- Kansai Altan is looking for partnership in manufacturing, services, applied research, product development, testing, piloting, and commercialization agreements.

## KABS can contribute in Cluster 4 - Digital, Industry and Space ;

HORIZON-CL4-2021-TWIN-TRANSITION-01-02: Zero-defect manufacturing towards zero-waste (IA)

HORIZON-CL4-2021-TWIN-TRANSITION-01-05: Manufacturing technologies for bio- based materials (RIA)

HORIZON-CL4-2021-RESILIENCE-01-11: Safe- and sustainable-by-design polymeric materials

HORIZON-CL4-2021-RESILIENCE-01-12: Safe- and sustainable-by-design metallic coatings and engineered surfaces

HORIZON-CL4-2022-RESILIENCE-01-23: Safe- and sustainable-by-design organic and hybrid coatings (RIA)

HORIZON-CL4-2021-DIGITAL-EMERGING-01-27: Development of technologies/devices for bio-intelligent manufacturing (RIA)

KABS can participate in;

- Optimisation and improvement of smart manufacturing processes,
- Combine the use of different bio-based materials to facilitate refurbishing and re-manufacturing of products to achieve circularity by design,
- Support the creation of a skilled workforce, through training/qualification of personnel, capable of using and implementing biomaterial-based manufacturing activities,
- Demonstrations and use cases for transitions towards green manufacturing Technologies incorporating bio-based materials with a significant reduction in the environmental footprint across the entire manufacturing and/or product lifecycle.

## KABS can contribute in Cluster 5 - Climate, Energy and Mobility;

- HORIZON-CL5-2022-D2-01-01- Sustainable processing and refining of battery grade graphite (IA)
- HORIZON-CL5-2022-D2-01-02- Interface and electron monitoring for the engineering of new and emerging battery technologies (RIA)
- HORIZON-CL5-2022-D2-01-07- Digitalisation of battery testing, from cell to system level, including lifetime assessment (RIA)
- HORIZON-CL5-2022-D3-03-05- Novel Thin Film (TF) technologies targeting high efficiencies (RIA)
- HORIZON-CL5-2022-D4-01-03- Smarter buildings for better energy performance (IA)
- HORIZON-CL5-2021-D6-01-01- More powerful and reliable on-board perception and decision-making technologies addressing complex environmental conditions (CCAM Partnership) (IA)
- HORIZON-CL5-2022-D6-01-01- European demonstrators for integrated shared automated mobility solutions for people and goods (CCAM Partnership) (IA)

KABS can participate in;

- Manufacturing of dispersion resin and pastes for batteries,
- Light Detection and Ranging (LiDAR) for augmented recognition of surroundings; Functional automotive OEM coatings such as LiDAR-suitable exterior automotive coatings to be applied on autonomous vehicles
- Safe drive
- Long life-cycle of coatings
- Reduced effect of heat island
- Fuel economy

<https://medium.com/playment/a-primer-on-lidar-for-autonomous-vehicles-efa04ab72a94>

<https://www.paint.org/coatingstech-magazine/articles/future-coatings-world-autonomous-vehicles/>



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