

**VAV AUTONOMOUS FACTORY**

Partner search profile | SMART Call 10





 **smart**  
advanced manufacturing

## ORGANISATION PROFILE

VAV Group is an Istanbul-based exhibition and custom-production company with a 4,000 m<sup>2</sup> integrated facility. Our capabilities include metal and wood fabrication, CNC, digital printing, laser work, assembly, site installation and reuse-oriented production. We will provide the industrial pilot environment and lead manufacturing validation.



## PROPOSAL INTRODUCTION (I)

**Vision: Turn customer drawings and 3D models into verified, manufacturable production packages for mass-custom projects.**

Motivation: Custom production still relies on manual interpretation, fragmented data and late error discovery. VAV can validate the solution in live factory conditions.

Content: Geometry extraction, BOM generation, CNC nesting and toolpath planning, material and waste optimisation, production scheduling, traceability, quality data capture, logistics planning and a reusable-component digital twin.



## PROPOSAL INTRODUCTION (II)

**Expected outcome: A factory-validated platform that links design data to planning, production and installation records, with quantified effects on lead time, material use and traceability.**

Impact: A commercialisable solution for exhibition, modular construction and temporary architecture producers across Europe.

Schedule: Proposed 30 months. Start after SMART approval. VAV pilots and validates in Istanbul; partners develop the required industrial AI, digital-twin, CAM and automation modules.



## PARTNERS

**Current consortium: VAV Group, Türkiye. Industrial pilot owner and manufacturing validation site.**

Partners sought: One or more industrial companies from another SMART country with proven capability in industrial AI and data engineering; digital twins/3D geometry; CAM, nesting or robotic production; MES/IIoT and traceability; circular-material analytics. Preferred countries: Spain, Austria, Germany, Sweden, Finland, Netherlands, Belgium, UK or Poland. Research organisations may join alongside the required industrial partner.



## CONTACT INFO

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**Partner discussion focus: work-package ownership, existing prototype maturity, industrial data access, IP boundary and pilot validation plan.**



