

CATs&DOG®

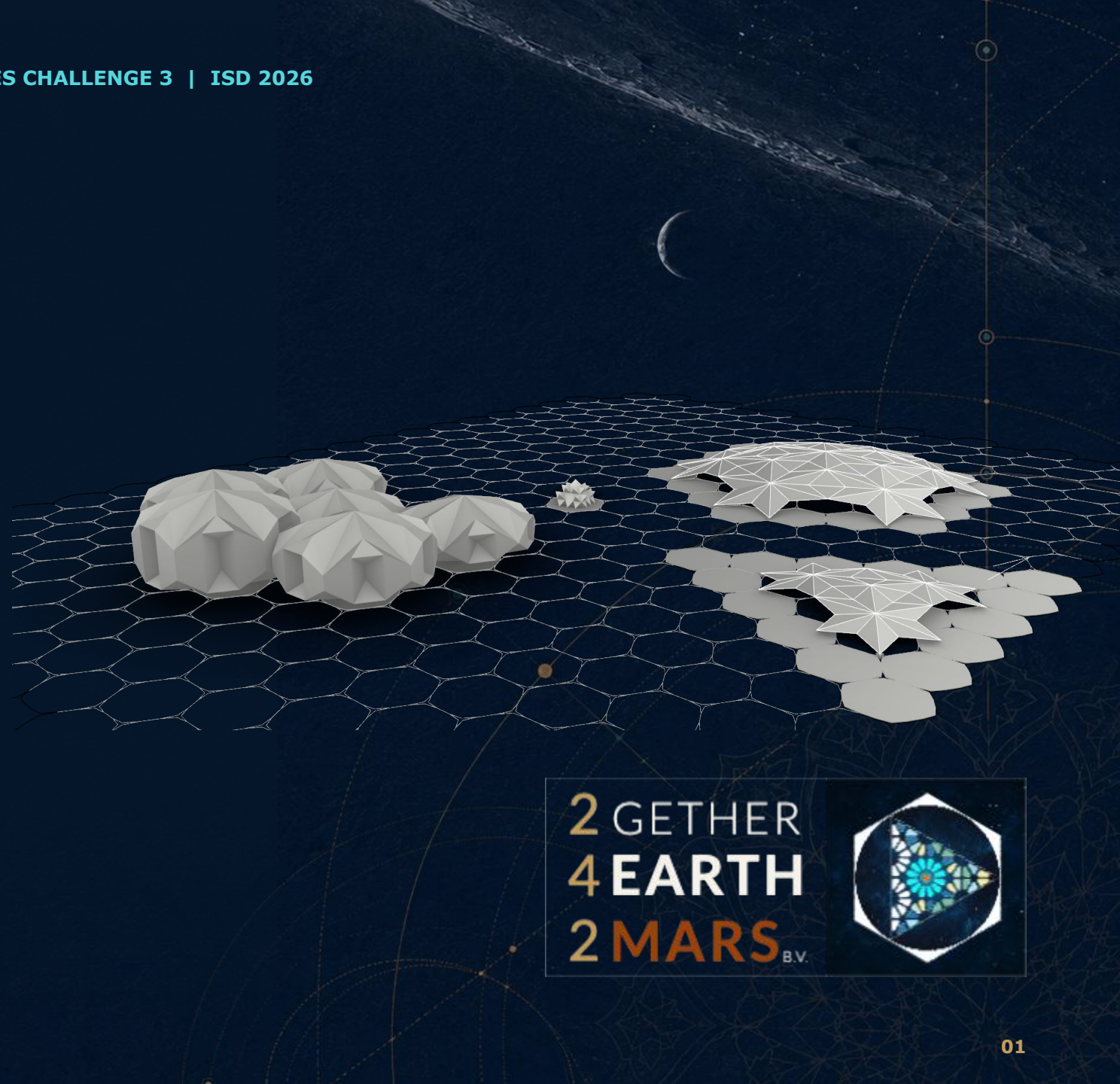
**GEOMETRY AS THE SYSTEM
LAYER
FOR LUNAR CONSTRUCTION**

DO MORE WITH LESS.

**MOVE FASTER. BUILD
STRONGER.**

**GO FURTHER - TOGETHER,
FROM MOON TO EARTH.**

4 Earth 2 Mars Holding B.V. | August 2026



2GETHER
4EARTH
2MARS_{B.V.}

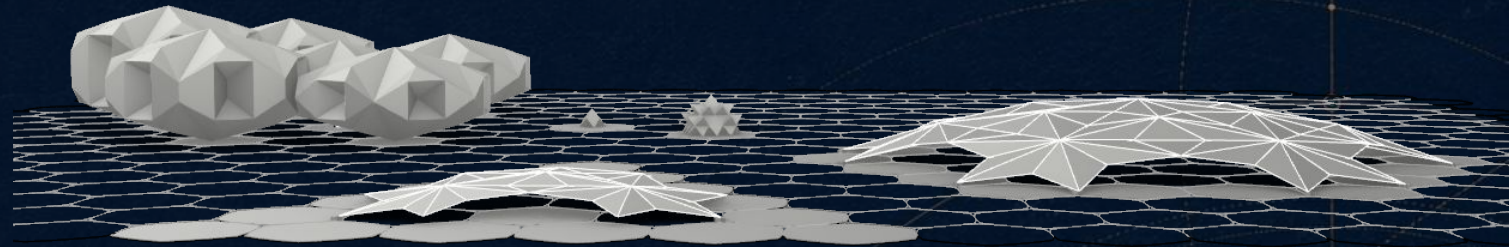


A construction-system architecture - not a one-shape deployable

NOT

a single origami pattern, a one-off folded object, or a system tied to one material process.

CATs&DOG turns flat-origami-inspired geometric logic into a self-supporting, reconfigurable kit of parts.



MULTIPLICITY FROM MINIMALITY

01

MINIMUM MODULE FAMILY

Repeatable modules instead of many bespoke parts.

02

STANDARD INTERFACES

Repeated connections across changing geometries.

03

MULTIPLE FORMS + SIZES

One system for different spans, scales and functions.

04

SELF-SUPPORTING GEOMETRY

Free-form, column-free structures without conventional beam-column logic.

05

RECONFIGURE + REUSE

Assemble, inspect, repair, disassemble and adapt.

Geometry is the efficiency engine

TARGET OUTCOME

**LARGER, COLUMN-FREE
USABLE STRUCTURES**

**with less material, less process energy
and less operational complexity.**

MATERIAL

Geometry-led load paths;
fewer conventional
support elements.

ENERGY

Fewer high-energy
processing steps and
repeated operations.

OPERATIONS

Fewer unique parts;
standard connections;
faster robotic workflows.

RESUPPLY

Local feedstock plus
modules designed for
disassembly and reuse.

EVIDENCE PATH

MODEL

Structure + lifecycle



MAKE

Materials + modules



ASSEMBLE

Robotic operations



MEASURE

Compare + validate

Competitive hypothesis: quantify performance against mass-compaction and sintering-led approaches through partner-led modelling, prototyping and testing.

Europe's lunar position is being set now

A limited opportunity to establish interfaces, evidence and industrial roles before lunar construction architectures harden.



ESA-ESRIC CHALLENGE 3: A PROOF PATHWAY, NOT ONLY A PRIZE

PHASE 1 > 5 FIELD-TEST TEAMS EUR 50K EACH > ESA LUNA SUMMER 2027 > WINNING IDEA EUR 500K AGREEMENT

PHASE 1
DEADLINE: 2
OCTOBER 2026

The strategic reward is a credible position in the emerging Moon-to-Earth construction value chain.

Five capabilities. One submission-ready consortium.

01

MATERIALS + PRODUCTION

Regolith feedstock, formulations, scalable module production, manufacturing energy.

02

ROBOTICS + OPERATIONS

Fabrication, handling, connection, assembly, inspection and disassembly.

03

STRUCTURES + SYSTEMS

Structural sizing, interfaces, free-form architecture and verification.

04

TEST + ESA DELIVERY

Prototype plan, LUNA test logic, work packages, proposal and project control.

05

STRATEGIC CAPITAL + INDUSTRIAL SCALE

CVCs and family-owned industrial groups funding proof and Earth scale-up.

THE COMMITMENT FILTER

- **Named lead**
- **Cash or in-kind resources**
- **Defined work package**
- **Interest beyond the award**

We are seeking committed operators and investors - not passive grant participation.

EUR 300K

SEED TARGET

Close evidence gaps. Build the team. Prepare the proof pathway.

ISD is the formalisation milestone - not the first meeting

If you can own one capability and commit resources now, let us meet before September.



DO NOT WAIT FOR ISD TO START THE CONVERSATION.

Use the ISD B2B platform to confirm and formalise a team already in motion.

Omid Hajishirmohammadi | Founder & CEO

2gether@4earth2mars.com | www.4earth2mars.com

