

Smart Shelter Foundation - Partnership Overview

New European Bauhaus & Horizon Europe.

SSF AT A GLANCE & CONTACT.

Smart Shelter Foundation

- 20+ years of experience
- Dutch registered NGO / Public Benefit Organization
- 3× Horizon Europe MSCA Seal of Excellence
- Europe - Middle East - Asia
- PIC: 884832740

Dr. Martijn Schildkamp — Founder, Director & Research Lead

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WHO WE ARE.

Smart Shelter Foundation (SSF) is an independent Dutch registered NGO with 20 years of research and expertise in resilient low-carbon natural-material construction systems based on vernacular knowledge and climate-adaptive design.

Led by **Dr. Martijn Schildkamp** (MSc Architecture, PhD Engineering, 3× Horizon Europe MSCA Seal of Excellence), SSF bridges traditional construction knowledge and contemporary engineering research to develop affordable, resilient and environmentally responsible building solutions.

SSF works across Europe, the Middle East and Asia, operating at the intersection of **multi-hazard resilience, climate adaptation, circular construction, affordability, social inclusion, and cultural identity** — central themes of the New European Bauhaus.

CORE EXPERTISE.

Seismic & structural safety	Assessment, experimental testing and validation of earthen and stone masonry assemblies for disaster resilience
Circular soil upcycling	Practical R&D methodologies for transforming excavated construction site soils into validated structural components (Stabilized Earth Blocks)
Climate adaptation	Vernacular and climate-adaptive strategies for affordable thermal comfort and energy-efficient buildings
Environmental assessment	Circular and low-carbon construction methodologies backed by Life Cycle Assessments (LCA) and whole-life carbon comparisons
Code development	Transitioning non-engineered, traditional material systems into formal national building codes, technical manuals, and regulatory frameworks
Knowledge transfer	International awareness programs, calls-to-action, academic student workshops, and open-source knowledge-transfer models

CONSORTIUM ROLES OFFERED & CALL ALIGNMENT.

SSF seeks participation in NEB-related Horizon Europe consortia as **research, technical, training & demonstration, dissemination, and sustainability assessment partner** across the following European funding tracks:

HORIZON-NEB-2026-01 — Open Calls.		SSF Contribution
REGEN-01	Thermal comfort in buildings	<i>Vernacular thermal strategies, passive natural material systems, LCA, multi-climate demonstration</i>
REGEN-03	Sustainable use of vertical space	<i>Seismic & structural safety of additions, climate resilience, low-carbon natural components, LCA</i>
PARTICIPATION-02	Spatial design of neighbourhoods	<i>Vernacular spatial knowledge, community-centred approaches, community identity, safety & belonging</i>
PARTICIPATION-03	Neighbourhoods health & well-being	<i>Participatory & transdisciplinary research, cultural identity, socio-educational academic workshops</i>
HORIZON-MISS-2026-04 — Open Joint Call.		SSF Contribution
CIT-NEB-B4P-CCRI-03	Circular economy in construction	<i>Earth & stone circular systems, excavated soil upcycling, LCA, city-scale circular replication</i>
HORIZON-NEB-2027-01 — Future Matchmaking.		SSF Contribution
REGEN-01	Combining conventional & innovative materials	<i>Hybrid vernacular-modern systems, seismic & structural assessment, building code alignment</i>
PARTICIPATION-03	Novel knowledge and research methods for fair green transition	<i>Transdisciplinary research, vernacular knowledge & system documentation, cross-cultural approaches</i>
BUSINESS-01	Mass customisation of offsite manufactured modular components	<i>Modular earthen & stone components, performance data, LCA, regulatory alignment</i>
HORIZON-NEB-2027-02 — Future Matchmaking.		SSF Contribution
NEB-SOIL-01	Soil Deal for Europe (joint call)	<i>Excavated soil reuse, stabilised earth blocks, reduced soil sealing, code development for natural materials</i>

WHY PARTNER WITH SSF.

20 years of proven expertise: Established deep project, construction, research and development credibility with an international track record.

Civil society perspective: SSF provides an independent NGO framework (with Public Benefit Organization status) supporting social inclusion, community engagement and participatory design.

Academic rigour: Directed by an architect / engineer holding a PhD, with an extensive list of peer-reviewed research and three successive HORIZON EUROPE MSCA Seals of Excellence.

Practical field implementation: Demonstrable history of built projects, active code contributions, and cross-border practitioner and student training frameworks.

Global cross-border footprint: Active across Europe, the Middle East, and Asia, making SSF perfectly positioned for multi-country consortium requirements.