

FROM S3 TO NEW HORIZONS

CIRCULAR RECONSTRUCTION: TURNING RUBBLE INTO RESOURCES



**UK International
Development**

Partnership | Progress | Prosperity

Prepared by ECO+LOGIC LLC.



WAR CREATED AN UNPRECEDENTED CHALLENGE



Ukraine continues to face repeated attacks, loss of lives and new destruction.

UNPRECEDENTED VOLUMES

Millions of tonnes of concrete, brick and other materials require a new approach.

OVERLOADED LANDFILLS

Landfilling — an expensive solution that creates no additional value.

POTENTIALLY HAZARDOUS WASTE

Asbestos and other hazardous components require identification, removal, and controlled processing.

RESOURCE LOSS

Mineral materials that could be returned to the economic cycle become waste.

On 28 August 2026, a Russian drone struck a facility in Myla, Dmytrivka community — a community directly involved in the S3 project.



THE SCALE OF THE CHALLENGE IS GROWING



**A NEW APPROACH IS NEEDED:
FROM WASTE — TO RESOURCE.
FROM DESTRUCTION — TO REBUILDING.**



RUINED BUILDINGS



DEMOLITION WASTE

S3

2024 — Before



UNIVERSITY
OF LEEDS

Imperial College
London



University of
Sheffield



rethink



скануй, аби
дізнатися більше



everox

National University of
Water and Environmental
Engineering



Вони руйнують – ми відбудуємо

2024 — 2026

2024 — After



Over 9,000 tonnes of concrete demolition waste from war-damaged sites in Dmytrivka Community were processed and removed. The site was fully cleared and restored.

Community support creates the conditions for innovative solutions to be implemented, while partnerships with business and international partners turn them into real change.

- ✓ Together, we implemented the innovative S3 project.
- ✓ 9,268 tonnes of construction waste processed.
- ✓ Asbestos decontamination introduced, with materials recovered for reuse.
- ✓ Benches and waste bins for the community created from recycled materials.
- ✓ Innovation creates value when it becomes real change for people.



On 28 August 2026, Head of Dmytrivka Community Taras Didych, Head of Dmytrivka Community, our long-standing partner and friend, was killed during a Russian drone strike on a facility in Myla village while helping residents at the site of the attack.

INTERNATIONAL KNOWLEDGE EXCHANGE

The Netherlands provided expertise in technology, science, and partnership.

- Technology exploration
- Materials testing
- New partnerships

The experience gained provides a foundation for developing and scaling solutions across Ukraine.



S3: FROM CHALLENGE TO ACTION

Since 2024, S3 has been supported by the UK Government through Innovate Ukraine, bringing together partners from Ukraine, the UK and the Netherlands.

S3 sorts and processes demolition waste, converting concrete and other construction materials into recycled products for reconstruction.

More than 9,000 tones of waste processed



Pilot location: Dmytrivka Community, Buchanskyi District, Kyiv Region





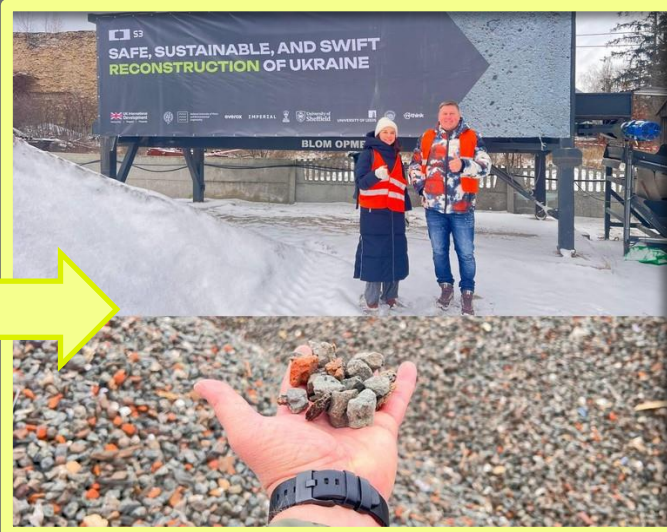
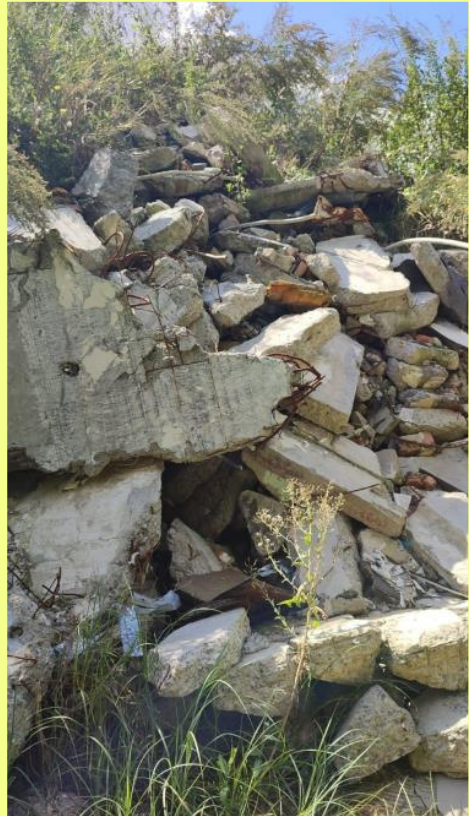
Turning rubble into a valuable resource



Processed fractions are sorted,
stored, and prepared for further use.

**Recovered material
is prepared for testing,
product manufacturing,
and use in infrastructure.**





For the first time in Ukraine,
An innovative ADR (Advanced Dry Recovery)
and HAS (Heating-Air-Separation) technologies
were applied. ASBPro device enabled rapid
detection of asbestos-containing materials,
ensuring safe processing. As a result,
a sand-cement fraction suitable for reuse was
separated.



SAFE PROCESSING AND TESTING

ASBESTOS SCREENING

Before processing, the waste undergoes systematic asbestos screening, ensuring the safe and controlled recovery of materials. The tested recycled concrete fractions are then processed for further use in construction.

- * SOP
- * DETECTION
- * TRACEABILITY

ASBpro Report

Sample may contain asbestos: **No**

Sample Name: 12.08q9

ASBpro Operator: Niton UK

Scan Date: 12/08/2026 14:05:23 GMT+03:00

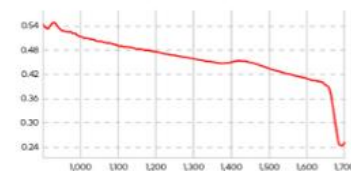
ASBpro Serial Number: E07R036

Latitude, Longitude: Could not get GPS data.

Location URL: Could not get GPS data.



Spectra



FROM RECYCLED MATERIAL TO PRODUCTS

LEGO-type blocks / finished product

3,500 UNITS PRODUCED

6,000 Blocks — Scaling Up Production

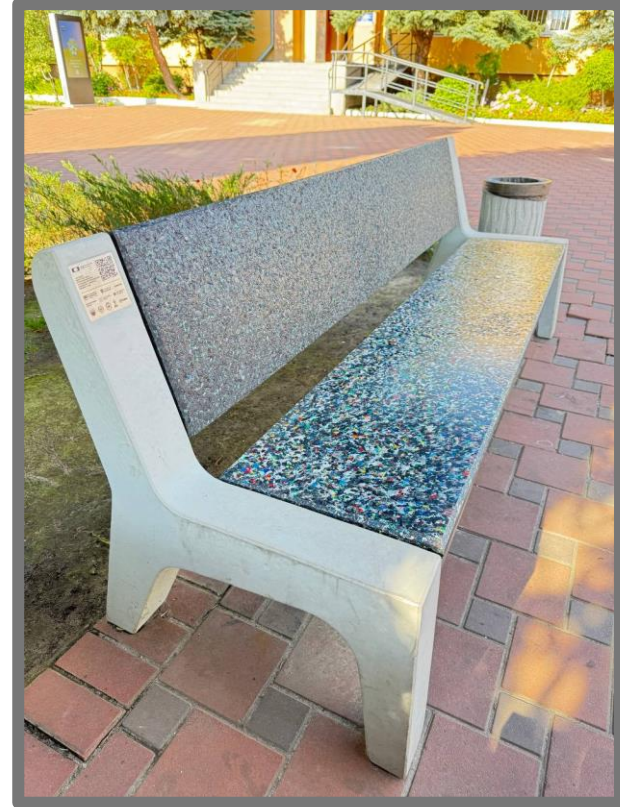


Testing → Validation → Product development

2025



2026



Recycled materials were transformed into practical community products, demonstrating their potential beyond laboratory testing.

Urban furniture & waste bins



MORE 100 UNITS PRODUCED

- ✓ 48 plastic benches
- ✓ 45 waste bins
- ✓ 35+ units in production



DEVELOPING NEW PARTNERSHIPS



Project results & reporting →
Partner search → New Dutch partnership →
Follow-on project

**Next-stage collaboration with
a Dutch manufacturing partner
to produce construction
elements from recycled sheet
material for small architectural
structures.**



UA **Ukraine** → NL **Netherlands**

**JOIN US IN SCALING CIRCULAR
RECONSTRUCTION**

FROM S3 RESULTS TO SCALLING



MEASURABLE RESULTS — S3

9,268 t construction & demolition waste processed

1,900 t recycled material reused

5.2 km of roads supported with recycled material

3,500 recycled-material blocks produced

100+ community products delivered

20+ additional benches requested

**We thank our partners
for their support and collaboration.
Together, we move forward, creating new
opportunities for Ukraine's sustainable recovery.**



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Development**

Partnership | Progress | Prosperity

BUSINESS

Recycling • Raw materials • Products • Pilot projects • B2B

SCIENCE & TECHNOLOGY

R&D • New products • IP • Validation

PUBLIC SECTOR & MUNICIPALITIES

Reconstruction • PPP • Infrastructure projects

INTERNATIONAL PARTNERS

Technology transfer • Market entry

DONORS & FUNDING PARTNERS

Joint grant applications • Co-funding • ESG programmes



**ECO+
LOGIC**



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