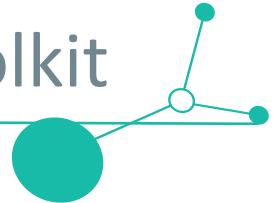


Digital Skills Transformation Toolkit



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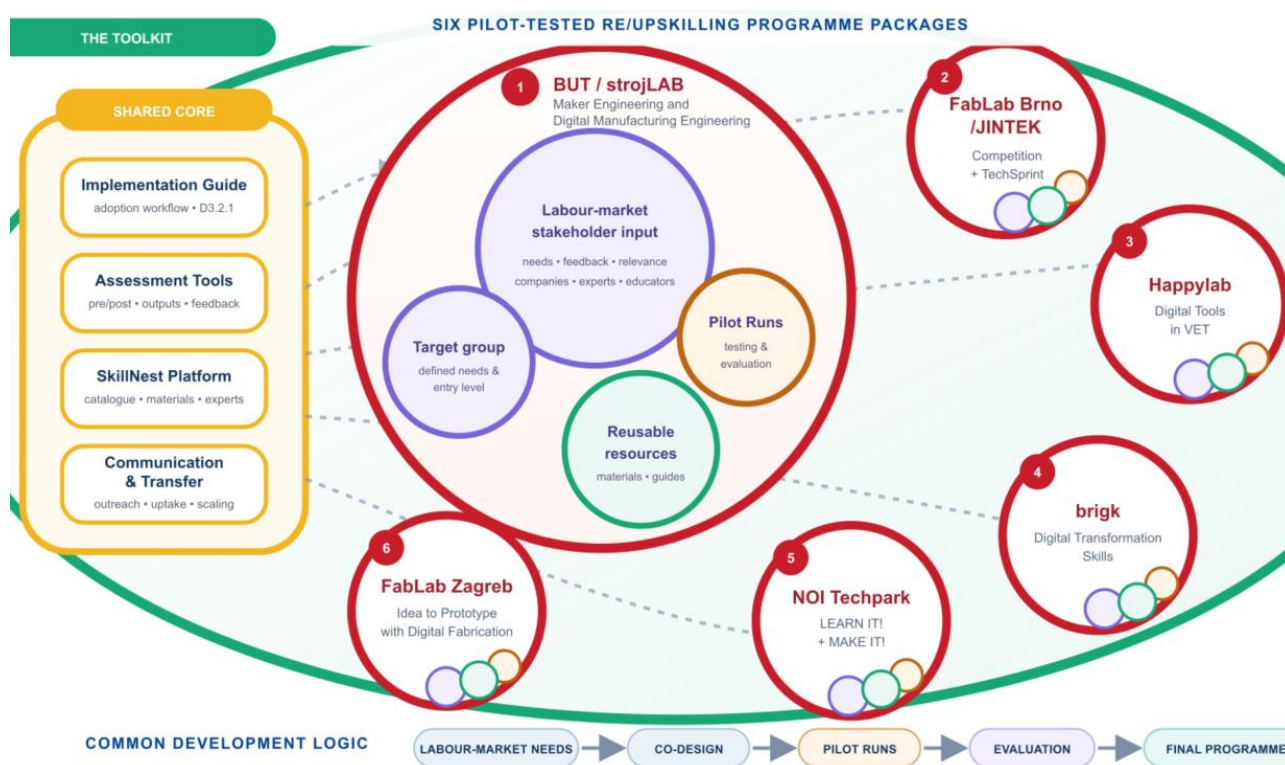


INTERREG CENTRAL EUROPE

Digital Skills Transformation Toolkit for a Resilient Labour Market

Digital Skills Transformation Toolkit

A ready-made solution for FabLabs and training-oriented organisations



the Toolkit structure implemented to the SkillNest platform

Project ID: CE0200661 | Version: Final | August 2026

skillnest.app

Jointly developed by the DiSTT partnership

Document control

DiSTT

Field	Value
Project	Digital Skills Transformation Toolkit for a Resilient Labour Market (DiSTT)
Programme	Interreg CENTRAL EUROPE 2021-2027
Project ID	CE0200661
Deliverable	D3.3.1 Digital Skills Transformation Toolkit
Work package / activity	WP3 / A3.3
Lead organisation	Brno University of Technology (BUT)
Delivery month	July 2026
Website	skillnest.app

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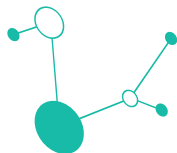
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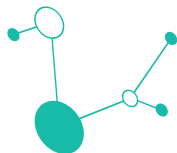
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Abbreviations

Abbreviation	Meaning
BUT	Brno University of Technology
CE	Central Europe
DME	Digital Manufacturing Engineering
EU	European Union
FabLab	Fabrication Laboratory
FGF	Fused Granulate Fabrication
LP / PP	Lead Partner / Project Partner
ME	Maker Engineering
RE/UP	Re/upskilling
SME	Small and medium-sized enterprise
VET	Vocational education and training



1. Executive Summary

The Digital Skills Transformation Toolkit is the final practical solution of the DiSTT project. It converts jointly developed programme concepts, more than thirty Pilot Runs, partner evaluations and stakeholder feedback into a reusable system that FabLabs, makerspaces, schools, universities, vocational-training providers and business-support organisations can adopt in their own context.

The toolkit consolidates six jointly developed programme solutions that were designed, piloted, evaluated and refined by the project partnership. Each solution corresponds to one of the six re/upskilling programme families implemented and validated during the project and is available for further adoption through SkillNest.

TOOLKIT DEFINITION

A ready-made yet adaptable solution consisting of six final re/upskilling programme solutions, assessment and feedback tools, an implementation pathway.

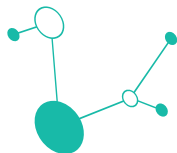
The toolkit is implemented through SkillNest at skillnest.app. The platform makes the project's workshop offer discoverable, links learning formats to identified skill gaps, presents labs and experts, embeds pre- and post-assessment, and provides role-based access to learning and facilitation materials.

Who the toolkit is for

- FabLabs and makerspaces seeking tested training formats rather than starting curriculum design from zero.
- Schools, universities and VET providers that want to connect digital skills with real fabrication tasks.
- Educators and technical experts looking for structured materials, assessment tools and implementation guidance.
- Learners who need transparent information about prerequisites, learning objectives, duration, equipment and outcomes.
- Companies and business-support organisations that need short, applied responses to workforce skill gaps.

What the toolkit contains

Component	Content	Primary users
Six programme solutions	Finalised formats developed and piloted by the six DiSTT partners	Educators, FabLabs, training organisations
Assessment toolkit	Pre/post self-assessment, practical-output criteria, observation and stakeholder feedback	Educators, evaluators, learners
Adoption workflow	Readiness, selection, adaptation, delivery, evaluation and scaling steps	Adopting organisations
SkillNest	Catalogue, programme information, labs, experts, embedded surveys on the web and role-gated resources	All stakeholder groups



Source: DiSTT Application Form (approved version, 27 March 2024); D2.2.1 partner Pilot Run Reports; SkillNest, accessed 23 July 2026.

2. Purpose, Scope and Project Context

2.1 The challenge addressed

DiSTT responds to a shared Central European challenge: employers and learners need digital-fabrication skills, while conventional education and training systems often adapt more slowly than technologies and work practices. The gap affects SMEs, crafts and micro-enterprises, young people entering the labour market, university students, jobseekers and employees whose roles are changing.

FabLabs and makerspaces are well positioned to respond because they combine equipment, educators, prototyping culture and links to local communities. Their flexibility makes it possible to test short workshops, multi-day programmes, weekly studios, competitions and mentored sprints without requiring a single institutional teaching model.

2.2 Role in the DiSTT intervention logic

A joint blueprint established a common framework for comparable re/upskilling programme design. The blueprint was translated into partner-owned programmes tailored to different regions and target groups.

Pilot runs tested programme content, teaching methods and assessment arrangements.

Implementation guidance was developed by consolidating lessons learned and recommendations for transfer and adoption.

The final toolkit brings together the validated programmes, assessment tools, implementation guidance and digital access resources.

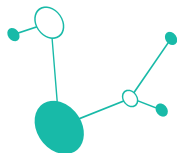
The result is a toolkit consisting of six jointly developed and validated programme solutions, supported by a common assessment approach, implementation guidance and digital access through SkillNest.

2.3 Difference between the Implementation Guide and the Toolkit

Deliverable	Primary question	Main contribution
Implementation Guide	How should an organisation plan and implement a programme?	Detailed process guidance, preparation and transfer logic
Digital Skills Transformation Toolkit	What final solution can an organisation take up and use?	Programme packages/solutions, assessment resources, SkillNest access and adoption workflow

SCOPE BOUNDARY

This deliverable does not repeat all raw Pilot Run evidence. It converts the evidence into adopter-oriented programme fiches and points users to the final digital and downloadable resources.



2.4 Intended uptake

The approved project framework expects all six project partners to take up the final toolkit and aims for uptake by at least 24 additional FabLabs or training-oriented organisations. Uptake should therefore be understood as practical reuse: selecting a programme, accessing its materials, adapting it to local conditions, delivering it and using the assessment cycle.

3. Development and Finalisation of the Toolkit

3.1 Development pathway

- 1. Skills-gap identification.** Partners and stakeholders identified needs in regional labour markets and education ecosystems.
- 2. Joint blueprint.** A shared programme structure made partner outputs comparable without suppressing local variation.
- 3. Programme design.** Each partner converted needs into at least one complete re/upskilling programme.
- 4. Piloting phase.** Programmes were tested through different lengths, target groups and delivery formats of the workshops.
- 5. Joint evaluation.** Pre/post assessment, participant feedback, facilitator observation and stakeholder input were synthesised.
- 6. Finalisation and publication.** Lessons were translated into final programme solutions and made accessible through SkillNest.

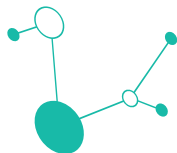
3.2 Evidence used

- Approved DiSTT Application Form and output definitions.
- Partner RE/UPskilling programme descriptions.
- Pilot Run Reports from LP1 and PP2-PP6.
- Joint evaluation findings and partner residency/tandem observations.
- Stakeholder, industry, student and facilitator feedback.
- Current public implementation of SkillNest, inspected on 23 July 2026.

3.3 Common design principles validated by the pilots

The pilot implementations were carried out across different countries, target groups and institutional settings. Despite these differences, a number of common design principles consistently contributed to successful delivery and positive learning outcomes. These principles were therefore incorporated into the final toolkit.

Principle	Operational meaning
Hands-on learning	Technical explanations are followed quickly by fabrication, programming, testing or design activity.
Visible output	A prototype, fabricated part, demonstration, presentation or documented solution gives the programme a concrete endpoint.



Principle	Operational meaning
Project or challenge logic	Learning is organised around a meaningful task rather than disconnected software exercises.
Modularity	Duration, equipment, complexity and support can be adapted while preserving core learning outcomes.
Formative feedback	Facilitators intervene during practical work, not only after it.
Assessment before and after	Entry self-assessment supports differentiation; post-assessment documents perceived development.
Technical plus transversal skills	Collaboration, communication, planning and problem-solving are mostly developed through the technical task.
Stakeholder connection	If possible, companies, experts, juries and local institutions always help keep content relevant.

3.4 How pilot lessons changed the final toolkit

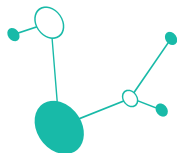
- Assessment questions are mirrored between pre and post stages to support direct comparison.
- Registration or anonymous matching codes are recommended when individual learning gains are needed.
- Short formats use a reduced assessment package to protect practical learning time.
- Materials are separated by participant and educator role where facilitation notes or possible answer keys should not be public.
- Programme fiches identify essential elements and adaptable elements to support responsible transfer.
- Alternative tasks and differentiated support are recommended for heterogeneous groups.
- Practical outputs and facilitator observation are used to triangulate self-assessment.

4. Toolkit Architecture

The toolkit is structured as an integrated system rather than a collection of standalone resources. The three layers below show how programme solutions, assessment tools and digital implementation mechanisms work together to support adoption and transfer.

4.1 Three-layer architecture

Layer	What it contains	How it is used
1. Programme solutions	Six partner solutions with objectives, formats, resources, assessment and transfer notes	Select and adapt a validated learning offer
2. Assessment toolkit	Needs diagnosis, mirrored pre/post questions, output criteria and observation templates	Establish baseline, support delivery and document outcomes



Layer	What it contains	How it is used
3. Implementation and access	Adoption workflow, SkillNest catalogue, labs, experts and role-gated materials	Prepare, deliver, connect and scale

4.2 Core information flow

1. A regional or organisational skill gap is identified.
2. An adopter selects the closest programme package or workshop format.
3. Learning outcomes, prerequisites, duration and equipment are adapted.
4. Participants complete pre-assessment and, where useful, are grouped or differentiated.
5. Educators deliver the programme using practical tasks and formative feedback.
6. Participants complete post-assessment and produce practical output.
7. The adopter interprets results, improves the programme and records the next run.

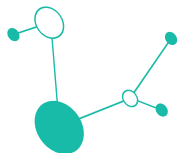
4.3 User roles

In terms of functionality on the skillnest.app platform, we distinguish between the roles of Learner and Educator. The other roles listed below are classified under one of them depending on the situation and the expected approach.

Role	Typical need	Toolkit pathway
Learner	Find a relevant workshop and understand what will be learned	Catalogue → workshop detail → registration → assessment → materials
Educator	Reuse or adapt a workshop and deliver it consistently	Programme fiche → educator resources → assessment → reflection
FabLab / training organisation	Adopt a complete format and connect it to facilities and experts	Readiness → package selection → adaptation → delivery → monitoring
Company / stakeholder	Signal a skill gap, co-design a challenge or support evaluation	Needs input → programme match → expert or jury role → feedback
Administrator / content manager	Create, maintain and publish structured content	CMS workflow → roles → resource management → monitoring

4.4 Public and restricted content

Access level	Examples	Reason
Public	Programme descriptions, workshops, skill gaps, labs, experts, prerequisites and learning objectives	Discovery and informed participation
Registered user	Participant resources, selected downloads and saved access	Controlled distribution and uptake tracking

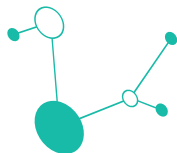


Access level	Examples	Reason
Educator	Facilitation guides, editable templates, assessment setup and restricted teaching resources	Protect delivery quality and role-specific content
Administrator	Content creation, publication status, role management, results and platform configuration	Governance and data protection

5. The Six Re/Upskilling Programme Solutions

The toolkit consolidates six jointly developed programme solutions. Each solution corresponds to one of the six pilot re/upskilling programme families designed, tested, evaluated and refined by the partnership during the project. Together, they provide transferable approaches for different target groups, learning contexts and levels of technical complexity. Each solution represents a coherent and transferable implementation model that may include several branches, modules or delivery formats adapted to local needs and contexts. While the specific content varies across solutions, a common structural framework supports comparison, transferability and quality assurance while preserving the programme logic validated by each partner.

Package	Owner / region	Primary target	Signature format
Maker Engineering + DME	BUT / Brno	University students and professionals	Portfolio from short workshops to professional intensives
Competition + TechSprint	FabLab Brno	Secondary schools	Challenge-based team prototyping
Digital Tools in VET	HappyLab / Vienna	Apprentices	Repeatable three-day robot programme
Digital Transformation Skills	brigk / Ingolstadt	SMEs, students, apprentices	Mini workshops + mentoring + series
LEARN IT! + MAKE IT!	NOI / Bolzano	Adults, SMEs, artisans	Courses and finished-object workshops
Idea to Prototype	FabLab Zagreb	Secondary schools / outreach	Five independent modules



5.1 BUT / strojLAB - Maker Engineering and Digital Manufacturing Engineering

Programme owner	Target groups	Core formats
Lead Partner 1 - Brno University of Technology / strojLAB, Czechia	University and secondary-school learners; company employees; independent professionals; lifelong learners	Short workshops, weekly thematic studios, challenge-based competitions, mentored project sprints and professional intensive courses

Purpose and value proposition

The BUT package combines two complementary branches. Maker Engineering (ME) develops broad maker, design and prototyping competences through accessible, project-based formats. Digital Manufacturing Engineering (DME) provides more specialized technical learning for professionals and advanced learners, with stronger emphasis on industrial application and structured recognition.

Core topics

- Additive manufacturing, 3D printing and fabrication-aware design
- Algorithmic and parametric modelling
- Robotic and large-format additive manufacturing
- 3D scanning, inspection and digital metrology
- CNC machining, laser/vinyl cutting, electronics and design thinking

Learning outcomes

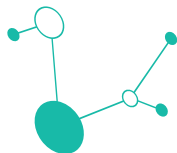
- Translate a design intent into a feasible digital-fabrication workflow.
- Prepare data, select parameters and operate relevant equipment safely.
- Evaluate production constraints and troubleshoot common process problems.
- Develop, test and communicate a tangible prototype or technical result.
- Connect technical decisions with teamwork, planning and user or industry needs.

Implementation requirements

Learning and teaching resources. Workshop presentation, teacher's guide, and optionally: step-by-step instructions, digital files, templates, practical assignments, safety guidance and assessment links.

Equipment and facilities. Depends on the selected module: computers and CAD tools, desktop or robotic 3D printing, 3D scanners, CNC/laser equipment, electronics and standard FabLab PPE.

Educator competence. Technical competence in the selected process, ability to supervise equipment and safety, and experience with project-based facilitation.



Assessment approach. SkillNest pre/post self-assessment; formative feedback; practical outputs; presentations; and, where relevant, expert or jury review.

Pilot evidence and lessons incorporated

PILOT EVIDENCE

Lead partner BUT reported 23 completed Pilot Runs, 339 workshop hours, 353 participant places and 5,510 cumulative participant-hours across ME and DME formats.

- A wide format portfolio increases reach but requires consistent metadata and assessment design.
- Pre-assessment can support team formation and differentiation.
- Hands-on activity should remain directly connected to the programme's final project.
- Registration or a stable participant code improves matching of pre/post responses.

Transfer logic

Essential elements	Adaptable elements	Recommended transfer scenarios
A real fabrication task, clear learning outcomes, direct equipment use, facilitator feedback and a documented practical result.	Technology, duration, difficulty, target group, challenge brief, delivery schedule and recognition method.	University FabLabs, design and engineering programmes, professional short courses, company upskilling and outreach for secondary schools.

Location in SkillNest

Workshop catalogue under strojLAB; related labs and experts; assessment links; registered-user materials.

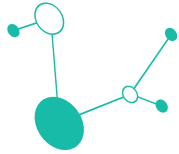
Source: Relevant partner D2.2.1 Pilot Run Report and current SkillNest implementation.

5.2 FabLab Brno/JINTEK - High School Competition and TechSprint

Programme owner	Target groups	Core formats
Project Partners 2/7 - FabLab Brno/JINTEK, Czechia	Secondary-school classes and student teams, teachers, company challenge owners	Multi-week competition and intensive three-to-five-day challenge sprint

Purpose and value proposition

This package turns labour-market and community challenges into motivating team projects for secondary-school learners. The longer competition supports deeper project development and public presentation; TechSprint offers a compact format suitable for a whole class and can be connected to a real company brief.



Core topics

- 3D modelling, slicing and desktop 3D printing
- Vector graphics and laser cutting
- Arduino, electronics and prototyping
- Project planning, teamwork and time management
- Presentation and communication of technical solutions

Learning outcomes

- Move from a challenge brief to a working prototype.
- Use at least one digital-fabrication process safely and purposefully.
- Combine design, electronics or programming where appropriate.
- Distribute team roles and work under a fixed time frame.
- Present the project to educators, stakeholders or a jury.

Implementation requirements

Learning and teaching resources. Workshop presentation, teacher's guide, and optionally: Challenge briefs, machine introductions, starter files, team planning prompts, presentation guidance and assessment questions.

Equipment and facilities. FabLab access with 3D printers, laser cutter, computers, electronics and suitable materials.

Educator competence. Multi-technology facilitation, ability to support heterogeneous classes, and experience structuring team roles and milestones.

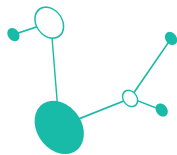
Assessment approach. Pre/post self-assessment; facilitator observation; final prototype and presentation; teacher, company and jury feedback.

Pilot evidence and lessons incorporated

PILOT EVIDENCE

FabLab Brno/JINTEK piloted two complementary activity families through repeated school groups. Reported technical gains were strongest in 3D modelling, 3D printing and laser cutting; soft-skill change was more modest in short runs.

- Form teams using pre-assessment when technical experience is uneven.
- Whole-class delivery needs deliberate participation structures so work is not concentrated in a few students.
- A short onboarding phase reduces the gap between beginners and hobbyists.
- Company involvement works best when the challenge is clearly scoped and participation expectations are light.



Transfer logic

Essential elements	Adaptable elements	Recommended transfer scenarios
Authentic challenge, team-based prototyping, access to fabrication tools, milestone support and final presentation.	Challenge source, programme length, number of technologies, class size, jury composition and competition element.	Secondary schools, science centres, mobile FabLabs, vocational schools and company-supported STEM initiatives.

Location in SkillNest

FabLab Competition and TechSprint workshop pages; FabLab Brno lab profile; educator profile and assessment links.

Source: Relevant partner D2.2.1 Pilot Run Report and current SkillNest implementation.

5.3 Happylab - Digital Tools in Vocational Training

Programme owner	Target groups	Core formats
Project Partner 3 - Happylab Vienna, Austria	Apprentices from technical, commercial and mixed vocational backgrounds	Repeatable three-day makerspace programme

Purpose and value proposition

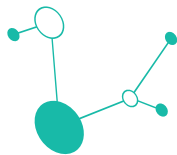
A deliberately consistent introductory format that connects CAD, 3D printing, laser cutting, robotics and programming through a shared robotic prototype. Repetition across vocational organisations tests whether the same core learning design can be transferred while adjusting pacing and support.

Core topics

- CAD modelling and file preparation
- 3D printing and laser cutting
- Calliope mini programming and electronics
- Robot assembly, testing and challenges
- Creative problem-solving and teamwork

Learning outcomes

- Create and prepare a simple CAD model.
- Start and monitor a 3D-printing process.
- Operate a laser cutter under workshop procedures.
- Apply basic programming concepts to a moving prototype.
- Test, debug and demonstrate a functioning team result.



Implementation requirements

Learning and teaching resources. Workshop presentation, teacher's guide, and optionally: printed worksheets, CAD templates, example code, fabrication files, challenge cards and a harmonised survey.

Equipment and facilities. Computers, 3D printers, laser cutter, Calliope mini and movement kits, hand tools and workshop facilities.

Educator competence. Competence across digital fabrication and introductory programming; close facilitation for beginners; ability to stage challenges.

Assessment approach. Seven mirrored pre/post items, open feedback, trainer observation and final prototype demonstration.

Pilot evidence and lessons incorporated

PILOT EVIDENCE

Nine runs reached 67 apprentices and 189 scheduled hours. The overall mean across seven items increased from 2.61 to 3.85 (+1.23/5), with the strongest gains in laser cutting, 3D printing, robot programming and 3D modelling.

- One repeated format produces strong implementation knowledge and improves transferability.
- Programming needs differentiated scaffolding and optional extensions.
- Pre-checking wiring and mechanical components protects productive learning time.
- Additional experimentation time is valuable once core functions are mastered.

Transfer logic

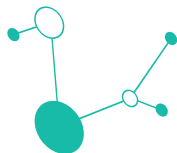
Essential elements	Adaptable elements	Recommended transfer scenarios
Connected multi-technology prototype, beginner-accessible progression, iterative challenges and final demonstration.	Robot challenge, optional sensors, programming depth, pace and organisational recruitment route.	Apprenticeship training, VET centres, company academies and makerspaces working with mixed vocational cohorts.

Location in SkillNest

Programme workshop page; Happylab profile; educator/expert links; assessment and final teaching package.

Source: Relevant partner D2.2.1 Pilot Run Report and current SkillNest implementation.

5.4 brigk - Digital Transformation Skills Programme



Programme owner	Target groups	Core formats
Project Partner 4 - brigg Makerspace / Startup Incubator, Ingolstadt, Germany	SME employees, university students, hackathon teams and apprentices	Mini workshops, hackathon follow-up mentoring and an apprentice workshop series

Purpose and value proposition

The brigg package combines fast technology entry points with longer transformation-oriented project support. Mini workshops provide low-threshold exposure; hackathon follow-up turns ideas into viable prototypes; and the apprentice series integrates CAD, embedded systems, programming and fabrication.

Core topics

- CNC Shaper, laser cutting and 3D printing
- Generative AI, vibe coding and software prototyping
- CAD, embedded systems, Arduino and digital circuits
- Hackathon concept development and rapid prototyping
- Project management, communication and presentation

Learning outcomes

- Gain a practical entry point into an emerging tool or method.
- Translate an initial idea into a demonstrable prototype.
- Combine digital design, fabrication and programming.
- Coordinate interdisciplinary work with company or team stakeholders.
- Present a technical solution and development pathway.

Implementation requirements

Learning and teaching resources. Workshop presentation, teacher's guide, and optionally: Introductory workshop guides, competency matching prompts, hackathon follow-up canvases, prototype milestones and feedback formats.

Equipment and facilities. Selected workshop equipment, computers and software, electronics kits, 3D printers, laser/CNC tools and prototyping materials.

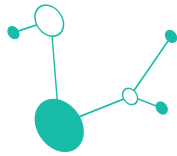
Educator competence. Technology-specific competence plus innovation facilitation, mentoring and the ability to work with company-defined problems.

Assessment approach. Short feedback for mini workshops; DAKI reflection and skills matching for follow-up; pre/post and practical evidence for longer apprentice formats.

Pilot evidence and lessons incorporated

PILOT EVIDENCE

brigg reported three complementary activity branches. Demand shifted from some short equipment introductions toward longer, practice-oriented programmes in coding, programming and generative AI.



- Short formats are useful for discovery but do not replace deeper practice.
- Scheduling across students, SMEs and mentors is a central implementation risk.
- Shared commitment, milestones and obligations help hackathon teams maintain momentum.
- Assessment intensity should match the duration and maturity of the format.

Transfer logic

Essential elements	Adaptable elements	Recommended transfer scenarios
A clear skill or challenge focus, immediate practical application, facilitator support and an explicit reflection or demonstration.	Technology topic, duration, challenge ownership, mentoring cadence, number of prototype iterations and participant profile.	Startup incubators, chambers, SME support programmes, apprentice academies and university innovation challenges.

Location in SkillNest

bring workshop entries, bring Makerspace lab profile, experts and linked assessment/resources.

Source: Relevant partner D2.2.1 Pilot Run Report and current SkillNest implementation.

5.5 NOI Techpark - LEARN IT! and MAKE IT!

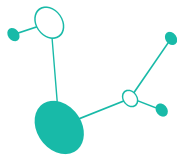
Programme owner	Target groups	Core formats
Project Partner 5 - NOI Techpark Maker Space, Bolzano, Italy	Employees, jobseekers, trainees, artisans, micro-enterprises and SMEs	Structured technical courses and short project-based maker workshops, delivered in Italian and German

Purpose and value proposition

NOI's two programme families create a flexible regional catalogue. LEARN IT! offers structured technical courses in CAD, electronics, CAM/CNC and simulation. MAKE IT! lowers the entry barrier by guiding participants through a finished object that combines multiple fabrication processes.

Core topics

- Fusion 360 CAD basics
- Arduino and electronics
- CAM and CNC milling
- CAE / finite-element simulation
- Multi-process maker projects such as tool trays and charging stations



Learning outcomes

- Develop a defined technical competence through structured practice.
- Use Maker Space tools with increasing autonomy.
- Troubleshoot a digital or physical workflow.
- Apply learning to a finished object or participant project.
- Recognise the Maker Space as a resource for future work.

Implementation requirements

Learning and teaching resources. Workshop presentation, teacher's guide, and optionally: exercises, starter files, project bills of materials, mirrored surveys and satisfaction questions.

Equipment and facilities. Depends on the course: computers and CAD/CAE software, CNC equipment, 3D printers, laser cutter, electronics and woodworking tools.

Educator competence. Subject competence, bilingual or language-adaptable delivery, and ability to move between structured instruction and project coaching.

Assessment approach. Course-specific technical items plus common transversal items, mirrored pre/post assessment, satisfaction and open feedback.

Pilot evidence and lessons incorporated

PILOT EVIDENCE

NOI Techpark reported 18 delivered runs and approximately 249 training hours across four LEARN IT! subjects and two MAKE IT! formats. Later runs recorded mean satisfaction of about 4.6/5.

- A broad catalogue supports regional responsiveness but requires disciplined version and metadata management.
- Project-based objects reduce intimidation and demonstrate that users can operate machines themselves.
- Bilingual delivery expands access but resources must be maintained consistently.
- Assessment instruments should be stabilised early to improve aggregation across runs.

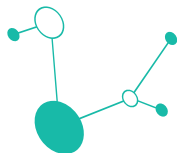
Transfer logic

Essential elements	Adaptable elements	Recommended transfer scenarios
Clearly defined competence or object, supervised hands-on use, participant autonomy and a reusable assessment core.	Course subject, language, entry level, object design, session structure and participant recruitment channel.	Regional innovation centres, adult-learning providers, chambers, crafts organisations and bilingual training ecosystems.

Location in SkillNest

NOI workshop pages, NOI Techpark lab profile, experts, assessment and programme resources.

Source: Relevant partner D2.2.1 Pilot Run Report and current SkillNest implementation.



5.6 FabLab Zagreb - Idea to Prototype with Cutting-Edge Fabrication Technology

Programme owner	Target groups	Core formats
Project Partner 6 - FabLab Zagreb, Croatia	Secondary-school learners, including participants in smaller or geographically remote communities	Five independent educational modules delivered in school and community settings

Purpose and value proposition

This inclusive modular pathway supports learners from problem framing to physical and interactive prototypes. Each module can stand alone, while the full set offers a broad progression across design thinking, 2D and 3D fabrication, electronics and material awareness.

Core topics

- Think Fast, Build Smart - Design Thinking
- Patterns with Purpose - 2D Patterns
- Digital Bodies - 3D Bodies
- Smart Interactions - electronics and interaction
- Innovative Materials - recycled and alternative materials

Learning outcomes

- Structure a problem, goal, idea and possible solution.
- Create and fabricate simple 2D or 3D digital forms.
- Develop a basic interactive circuit or smart object.
- Document and communicate a project concept.
- Make informed choices about material and fabrication methods.

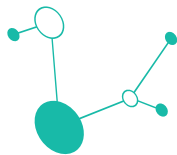
Implementation requirements

Learning and teaching resources. Workshop presentation, teacher's guide, and optionally: Module worksheets, seminar tasks, design prompts, digital files, fabrication instructions and translated pre/post instruments.

Equipment and facilities. Portable or local access to computers, 2D/3D fabrication tools, basic electronics, recycled plastic tools/materials and low-cost prototyping supplies.

Educator competence. Inclusive facilitation, school coordination, basic competence across the selected module and ability to operate with constrained local infrastructure.

Assessment approach. Module-specific pre/post self-assessment, open responses, facilitator observation, worksheets and practical outputs.



Pilot evidence and lessons incorporated

PILOT EVIDENCE

FabLab Zagreb reported 13 module-group implementations, 27 live meetings and 109 modular participations. Modules were independent, so participation figures are not presented as unique individuals.

- Independent modules improve scheduling and reduce prerequisite barriers.
- Simple examples and guided practice work well for learners with little prior experience.
- Aggregate pre/post results should not be interpreted as matched individual gains without participant identifiers.
- Portable and low-cost variants support outreach beyond metropolitan FabLab sites.

Transfer logic

Essential elements	Adaptable elements	Recommended transfer scenarios
Accessible problem or task, guided practical work, learner output, inclusive support and local safety arrangements.	Module combination, equipment intensity, school schedule, language, delivery location and project theme.	Secondary schools, rural outreach, mobile makerspaces, youth centres and community digital-fabrication programmes.

Location in SkillNest

FabLab Zagreb programme/workshop pages, lab profile, experts and module-level resources.

Source: Relevant partner D2.2.1 Pilot Run Report and current SkillNest implementation.

6. SkillNest Digital Implementation

SkillNest is the user-facing digital environment of the toolkit. The following documentation reflects the public interface observed on 23 July 2026. Screenshots are included as evidence of current functionality; content and interface details may evolve after project completion.

6.1 Platform entry point and stakeholder pathways

The landing page introduces the platform mission and provides direct navigation to workshops, experts, labs, registration and stakeholder-specific information. It positions SkillNest as a bridge between companies, educators, individuals and policymakers.

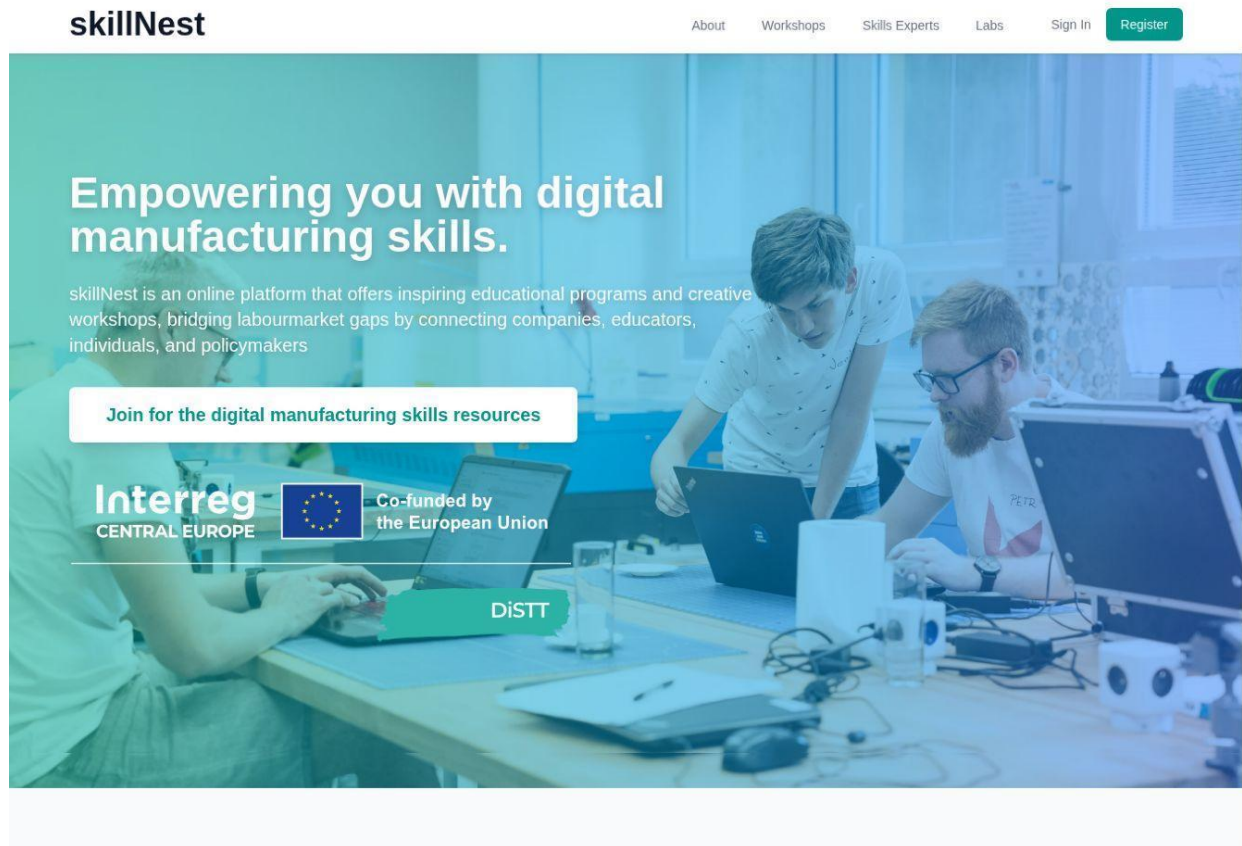
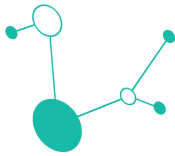
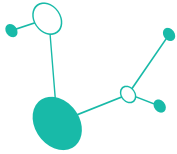


Figure 1. SkillNest landing page and entry point.



6.2 Workshop catalogue and discovery tools

The public catalogue supports full-text search, filters and an option to show workshops with open sessions. Cards expose key selection metadata such as title, organisation, educator, level, status, target group, format, duration, capacity and skill-gap tags.

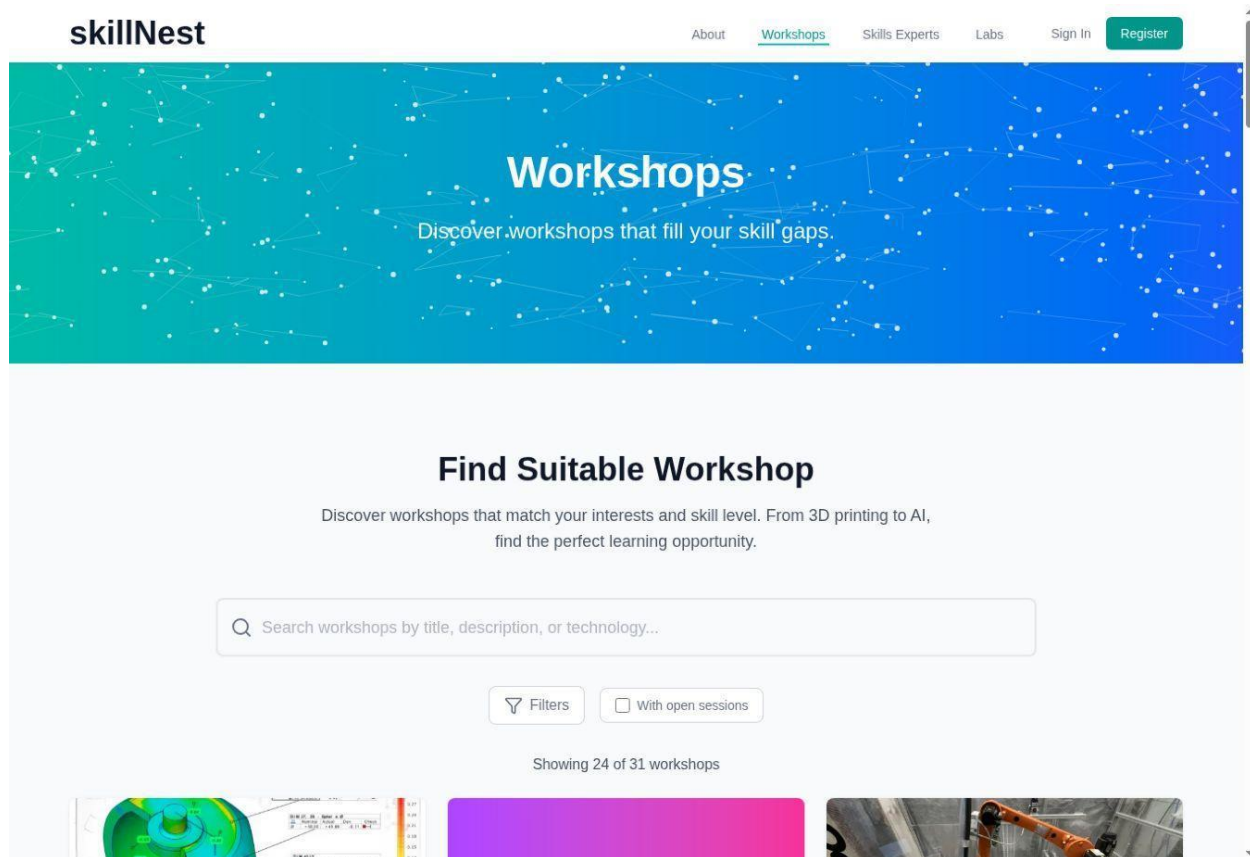
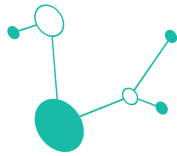


Figure 2. Workshop catalogue, search and filter interface.

6.3 Workshop detail

Each workshop detail page turns a catalogue entry into an implementation and participation record. It combines description, organisation, lecturers, audience, duration, capacity and skill gaps with learning objectives, prerequisites, assessment links and access to materials.



skillNest

AboutWorkshopsSkills ExpertsLabsSign InRegister

Home / Workshops / Industrial Robotic 3D Printing with Polymers

IntermediateIn PreparationShort term workshop

Industrial Robotic 3D Printing with Polymers

An intensive three-day workshop covering the complete workflow of large-scale robotic 3D printing with polymers. Participants will learn how to design and generate toolpaths in Grasshopper, understand robotic motion and process limitations, and validate their designs through real-world printing on a six-axis robotic system. The focus is on connecting parametric design with manufacturing reality—what you design, you will actually print. 14. - 16. 7. 2026 price: 9 900 Kč plus VAT

strojLAB

26 hours

10 max participants

Skill Gaps

3D modeling and slicingAlgorithmic design

Additional Details

Organization: strojLAB

Lecturers: Vojtěch Florián , David Škaroupka, Petr Krejčířík, Petr Křivohlavý

Target Audience: Other

Pre-Assessment Survey

Fill a pre-assessment survey for this workshop

Pre-Assessment Survey

Figure 3. Workshop detail with metadata and assessment entry point.

6.4 Pre- and post-assessment tools

Workshop pages can link to separate pre- and post-assessment surveys. Surveys are embedded in SkillNest and can also be opened through a shareable link. The same core competence statements should be used at both stages.

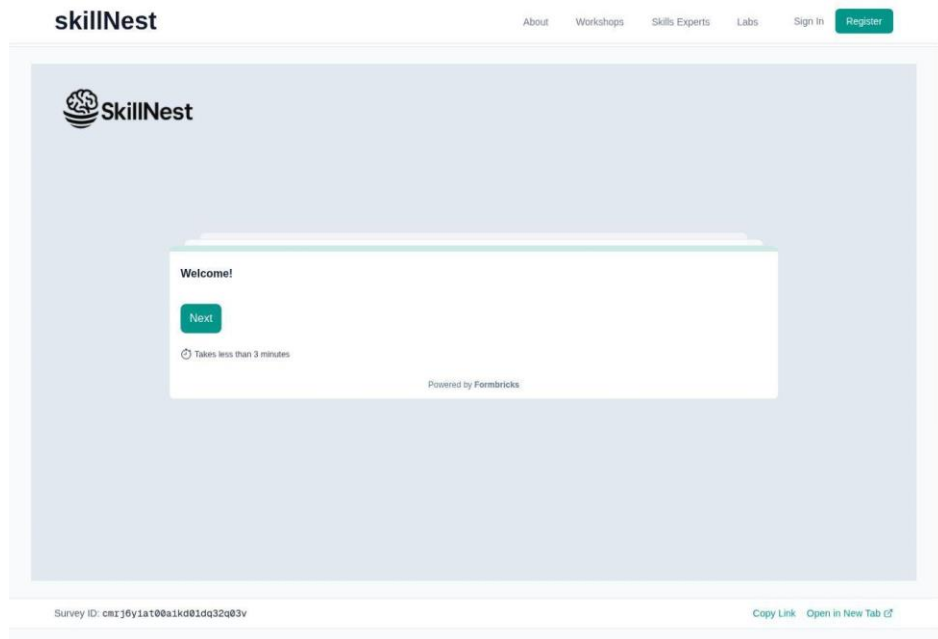
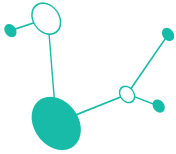


Figure 4. Embedded pre-assessment environment.

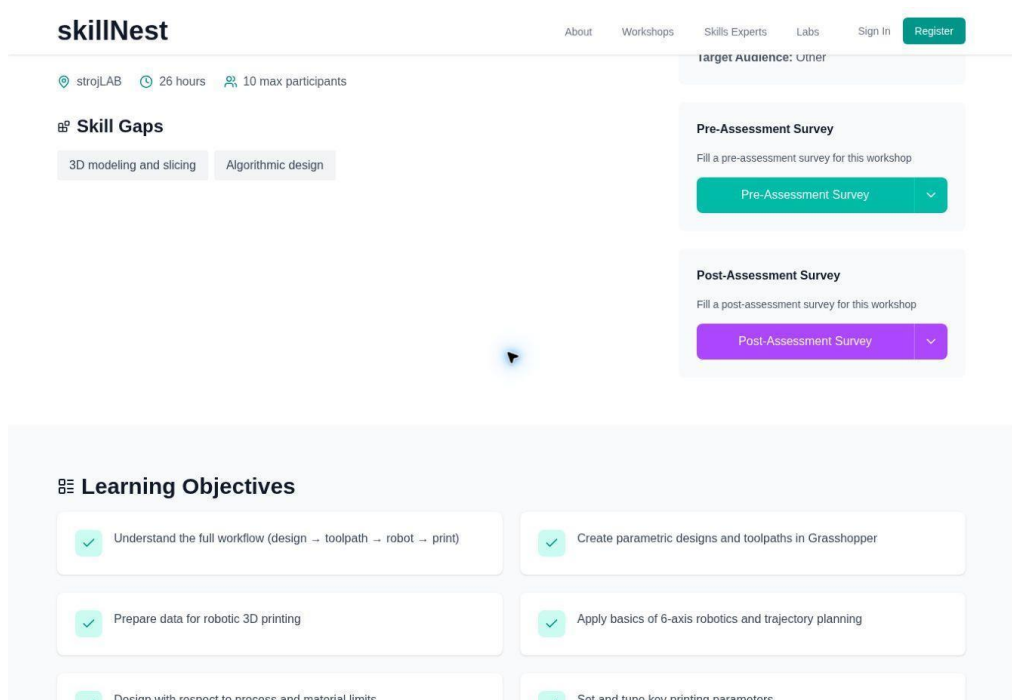
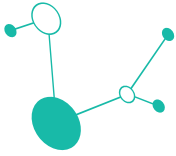


Figure 5. Pre/post assessment access and learning objectives within a workshop.



6.5 Workshop materials and downloadable resources

Workshop materials can be role-gated. Public users can understand that resources exist, while sign-in or an additional role may be required to download participant or educator content. This supports both dissemination and responsible control of facilitator-only materials.

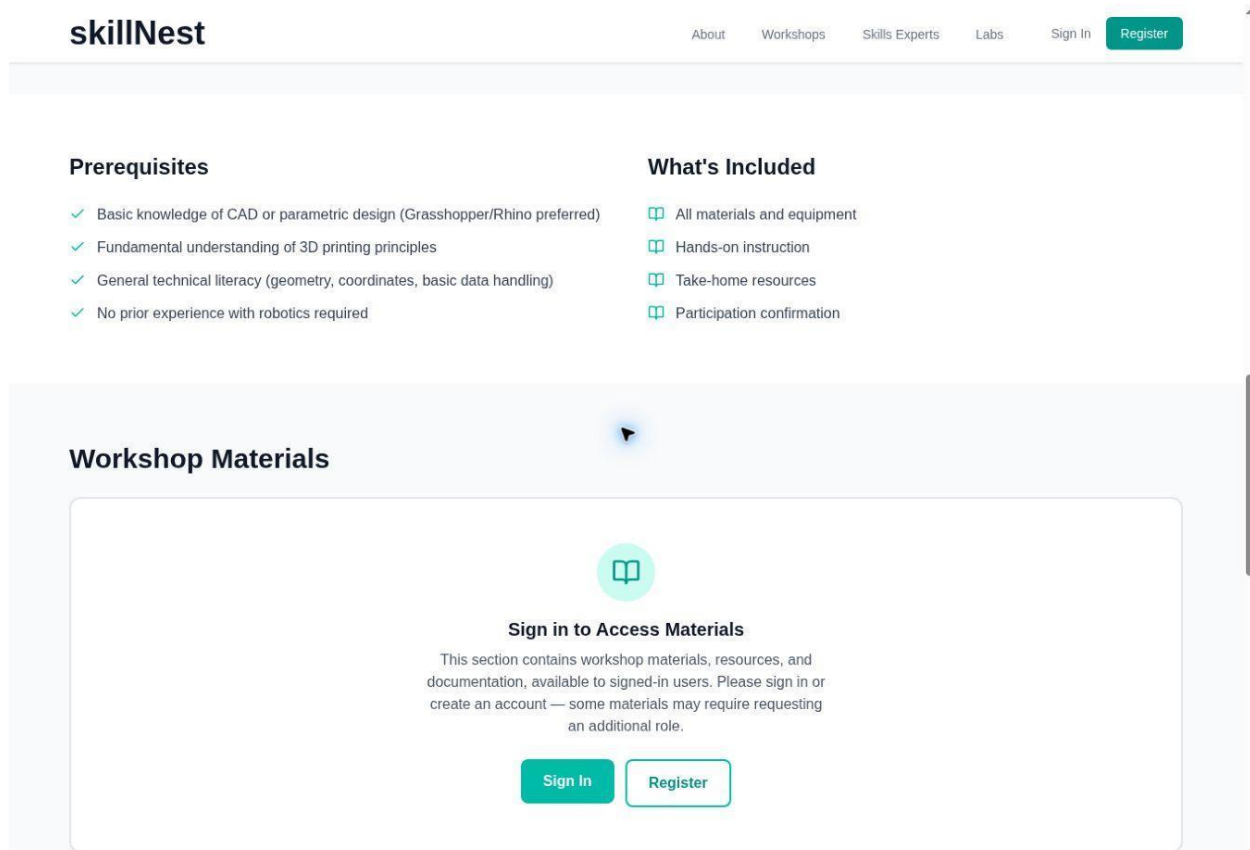
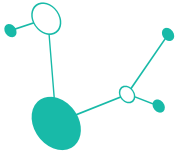


Figure 6. Role-gated workshop materials and account access.

6.6 Lab network

The Labs section presents the six DiSTT environments across five countries. Profiles connect location, specialisation, facilities and contact information and can link a user from a programme to a delivery environment.



Our Labs Network

Discover our network of FabLabs and maker spaces across Central Europe, where innovation meets hands-on learning and digital fabrication

6 Labs in Our Network

Each lab in our network offers unique expertise and facilities for digital fabrication, prototyping, and hands-on learning experiences.



FabLab BRNO
Brno, Czechia

We are the first open digital workshop in Brno and the first Czech FabLab.
We are FabLab Brno. Our largest workshop, where you can try 3D printing, make stickers or print on a T-shirt.



strojLAB
Brno, Czechia

strojLAB the first university fablab in Czechia
strojLAB is the first university FabLab in Czechia. It is designed as innovation HUB at Faculty of Mechanical Engineering Brno University of Technology. Its mission is to provide a platform for students and researchers to create and develop their ideas.



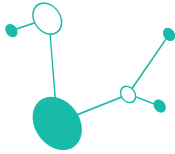
brink Makerspace
Ingolstadt, Germany

At our brink Makerspace, you can create your own prototype, small batches, or even go into series production
We are firmly convinced of the huge potential of digital fabrication.

Figure 7. DiSTT laboratory network.

6.7 Skills Experts directory

The experts directory makes delivery capacity visible. Users can filter educators and industrial experts and inspect expertise, affiliation and contact routes. This supports programme transfer, peer support and stakeholder engagement.



Skills Experts

Experts will help you implement workshops in your practice.

All

Educator

Industrial Expert



Andreas Wildmann

Austria / Happylab Wien
Digital Making Educator

Andreas is a digital making educator at Happylab in Vienna. As a Digital Fabrication and Maker Educator, he is responsible for designing, planning, and delivering hands-on workshop formats for participants of all ages. His workshops focus on digital fabrication technologies such as laser cutting, 3D printing, electronics and programming, often combining these disciplines in creative projects.



Tanguy Prévot

★ Industrial Expert

Czechia / Protective Industrial Products, Inc.

Industrial designer

Tanguy is an award-winning industrial designer who gathered experience and know-how in various European countries, in various industries. He is focused on delivering designs that matter and have a positive impact on the users; making their life easier, making their workflow smoother and safer, making their profession more enjoyable. When it comes to knowledge sharing and education, Tanguy is a



Jan Vitek

Czechia / strojLAB

Computation designer

Jan Vitek is a PhD. student at Brno University of Technology focus on both parametric and generative design for technical as well as artistic applications. My current work explores generative strategies in the context of ceramic 3D printing, combining computational design methods with hands-on material experimentation.

Figure 8. Skills Experts directory and role filters.

6.8 Registration and programme information

Registration creates the basis for access to restricted resources and can support stronger uptake monitoring. The RE/UP page explains the overall programme concept, industry-driven curriculum and practical structure.

Figure 9. User registration interface.

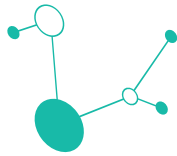


Figure 10. RE/UP programme information page.

6.9 Communication and feedback

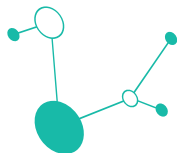
- Newsletter subscription and workshop notifications.
- Contact routes from workshop and lab profiles.
- Feedback form and expressions of interest.
- Links between workshops, organisations and experts.

7. Assessment Toolkit

7.1 Assessment purposes

Assessment in DiSTT is designed primarily for learning and programme improvement. It is not a replacement for formal qualification testing unless a partner adds validated competence criteria and appropriate examination arrangements.

Purpose	Use
Needs diagnosis	Identify entry experience, confidence and support needs.
Differentiation	Form balanced teams or provide alternative task levels.



Purpose	Use
Learning reflection	Help participants recognise what changed.
Programme evaluation	Compare patterns across runs and identify weak modules.
Stakeholder evidence	Demonstrate relevance and outcomes without exposing personal data.

7.2 Recommended measurement model

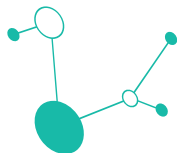
- Use identical competence statements before and after delivery.
- Use a five-point anchored scale, for example 1 = no understanding / cannot perform; 5 = can perform independently and explain to others.
- Keep questions specific to the actual learning outcomes and practical task.
- Add no more than three common transversal items unless soft skills are a central objective.
- Use a registration identity or anonymous matching code when individual gain is required.
- Report response counts and unmatched-response limitations transparently.

7.3 Core assessment components

Component	When	Evidence produced
Pre-assessment	Before or at the start	Baseline, expectations and support needs
Formative observation	During practical work	Safety, process use, collaboration and troubleshooting
Practical output	During and at completion	Applied competence demonstrated in a prototype, file or presentation
Post-assessment	At the end	Perceived development, satisfaction and next-step intention
Stakeholder/expert feedback	At review or demonstration	External relevance and transfer recommendations

7.4 Minimum package by programme format

Format	Minimum assessment package	Recommended extension
1-4 hour workshop	3-5 mirrored competence items + one usefulness question	Facilitator observation note
1-3 day intensive	5-8 mirrored items + output check + satisfaction/open feedback	Matching code and transfer-intention question
Multi-week studio	Baseline + milestone reviews + output rubric + post-assessment	Portfolio and peer/expert review



Format	Minimum assessment package	Recommended extension
Competition / sprint	Baseline + team observation + final prototype/pitch criteria	Jury feedback and team reflection
Professional programme	Technical baseline + practical criteria + post-assessment	Recognition, employer feedback and follow-up application

7.5 Practical-output rubric

Criterion	1 - emerging	3 - competent	5 - independent / transferable
Technical execution	Output incomplete or requires continuous support	Functional output with occasional support	Reliable output; participant can explain and adapt process
Process understanding	Steps followed without understanding dependencies	Explains main workflow and constraints	Diagnoses trade-offs and proposes improvements
Safety and equipment use	Needs repeated correction	Follows required procedures	Works consistently and supports safe team practice
Problem-solving	Stops when an error occurs	Tests plausible corrections	Uses evidence, compares options and documents learning
Communication	Result is difficult to interpret	Explains goal, process and result	Tailors explanation to users, peers or stakeholders

7.6 Interpretation and limitations

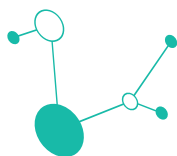
Self-assessment measures perceived competence and confidence. It can be influenced by response shift: beginners may initially overestimate a skill and rate themselves more critically after understanding its complexity. For this reason, DiSTT combines survey results with practical evidence and facilitator observation.

REPORTING RULE

Always state the number of pre and post responses, whether responses were individually matched, the scale anchors and whether the practical output was independently assessed.

7.7 Data protection

- Collect only data needed for delivery, evaluation and agreed uptake monitoring.
- Use aggregated reporting for minors and sensitive groups.
- Keep attendance records and identifiable survey responses separate where possible.
- Inform participants about purpose, retention, access and contact points.
- Do not publish personal assessment results in SkillNest workshop pages.



8. How to Use and Adopt the Toolkit

8.1 Nine-step adoption workflow

Assess readiness. Confirm strategic fit, educator capacity, equipment, safety, target group access and time.

Identify the skill gap. Use employer, learner, educator or regional evidence to define the need.

Select a programme package. Choose the closest validated package and inspect essential versus adaptable elements.

Adapt responsibly. Change language, examples, duration or equipment while protecting core outcomes and practical logic.

Prepare delivery. Assign roles, test equipment, obtain materials, configure assessment and plan contingencies.

Recruit and register. Use target-group channels and explain prerequisites, accessibility and expected outputs.

Deliver and assess. Combine concise input, practical work, formative feedback and the selected assessment package.

Review and improve. Compare assessment evidence, facilitator notes and stakeholder feedback.

Repeat and scale. Version resources, document the next run, share learning and connect with the SkillNest network.

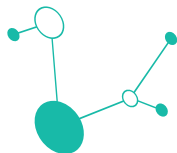
8.2 Readiness check

Area	Minimum readiness question
Strategic fit	Is the target skill gap evidenced and relevant to our mission?
Learners	Can we recruit the intended group and remove participation barriers?
Educators	Who owns technical content, facilitation and safety?
Equipment	Are machines, software, consumables and maintenance available?
Assessment	Can we administer mirrored pre/post questions and observe practical outputs?
Partnership	Do we need a company, school, expert, jury or referral partner?
Sustainability	Can the format be repeated after the first adoption run?

8.3 Adaptation decision rule

PRESERVE THE LEARNING MECHANISM

An adopter may change the local topic, software, material or timetable. It should not remove the element that creates the intended learning: direct fabrication, iterative challenge, final demonstration, mentoring or another package-specific mechanism.



8.4 First-run implementation record

- Adopter organisation, location and responsible person.
- Selected package and version of resources.
- Target group, recruitment channel and participant numbers.
- Adaptations made and reasons.
- Delivery dates, hours and format.
- Pre/post response counts and matching method.
- Practical outputs and facilitator observations.
- Participant and stakeholder feedback.
- Changes required before the next run.

9. Transferability, Inclusion and Scaling

9.1 Transfer across territories

Transferability is supported by joint development across six partners operating in five Central European countries. The solutions were tested in university, open FabLab, VET, startup-support, regional innovation and school-outreach contexts. This diversity provides evidence that common quality principles can coexist with regional adaptation.

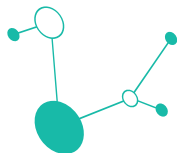
9.2 Transfer across sectors and target groups

Pilot experience demonstrated that the solutions can be transferred beyond their original implementation settings. Successful transfer does not require identical delivery but rather preservation of the core learning mechanism while adapting the format to local needs and conditions.

Original context	Potential transfer	Adaptation emphasis
University FabLab	Professional training or company academy	Industrial examples, scheduling and recognition
Secondary-school challenge	VET or youth employment programme	Task difficulty, safeguarding and employer role
Apprentice makerspace programme	Adult career-transition course	Pacing, prior experience and application planning
Startup hackathon follow-up	SME innovation programme	Problem ownership, IP and mentoring cadence
Regional technical catalogue	Chamber or adult-learning offer	Language, pricing and referral pathways
Remote school modules	Mobile FabLab or community centre	Portable equipment and low-cost variants

9.3 Inclusion principles

- Describe prerequisites accurately and avoid treating prior access to technology as ability.
- Offer beginner pathways, visual instructions and staged tasks.



- Use team formation and differentiated roles to prevent exclusion by confidence or experience.
- Provide reasonable accessibility adaptations and alternative ways to demonstrate learning.
- Use inclusive language and imagery and monitor participation patterns.
- Protect minors and vulnerable participants through appropriate consent and safeguarding.
- Use local languages where they materially improve participation and learning.

9.4 Scaling without quality loss

- Scale through repeated cohorts before increasing group size.
- Train additional facilitators using observed delivery and co-facilitation.
- Maintain a versioned core resource set with local add-ons.
- Track fidelity to essential elements and reasons for adaptation.
- Use a small common assessment core so results remain comparable.
- Share problems and improvements through the FabLab and SkillNest network.

10. Uptake, Sustainability and Governance

10.1 Ownership and durability

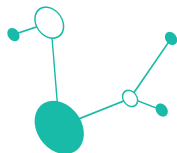
Brno University of Technology will maintain SkillNest as the digital access point for the toolkit. Programme ownership remains distributed: each partner is responsible for the accuracy and practical relevance of its package and associated resources. This combined model supports platform continuity while preserving subject ownership.

10.2 Partner responsibilities

Responsibility	Platform owner	Programme owner	Adopter
Technical availability	Maintain application and core services	Report problems	Use supported access routes
Programme content	Provide structure and publishing support	Review and update package	Adapt transparently
Assessment templates	Maintain access and common structure	Validate programme-specific items	Administer responsibly
User roles and access	Manage role model and platform rules	Nominate authorised educators	Request appropriate access
Uptake monitoring	Aggregate platform indicators	Record partner reuse	Provide first-run feedback

10.3 Content governance cycle

1. Programme owner reviews content at least annually or after a material process change.
2. Changes receive a version number, date and short revision note.
3. Broken links, obsolete software instructions and safety information receive priority.



4. New resources are labelled by audience and access level.
5. Assessment changes preserve comparability or document a deliberate break in series.
6. Adopter feedback is reviewed for general improvements and local-only variants.

10.4 Uptake monitoring indicators

- Number of registered organisations and educators accessing toolkit resources.
- Number of distinct programme solutions downloaded or requested.
- Number of adopter organisations completing a first run.
- Countries, territories and target groups represented.
- Repeated delivery after the first adoption.
- Participant reach and assessment-response rates.
- Qualitative improvements contributed back to the toolkit.

11. Conclusions

The Digital Skills Transformation Toolkit is the jointly developed solution through which DiSTT moves from experimentation to repeatable practice. It brings together six jointly developed and validated programme solutions that were designed, piloted, evaluated and refined by the project partnership, a common assessment approach, transfer guidance and a digital environment that connects workshops, labs, experts, learners and resources.

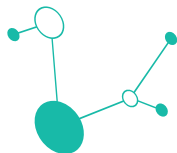
Its value lies neither in rigid standardisation nor in a loose collection of workshop ideas. The toolkit identifies what should remain essential—hands-on application, visible outcomes, formative support, assessment and stakeholder relevance—and what can be adapted to local target groups, equipment, language and delivery conditions.

FINAL RESULT

A practical route from an identified digital-fabrication skill gap to a selected programme, prepared delivery, documented learning outcome and repeatable local offer, accessible through skillnest.app.

Annex A - Comparative Matrix of the Six Prgm. Solutions

Package	Target group	Typical duration	Primary mechanism	Equipment intensity
BUT strojLAB	Students, professionals	2 h to multi-week	Project, studio and professional practice	Low to very high
FabLab Brno/JINTEK	Secondary schools	3 days to multi-month	Challenge and competition	Medium to high
Happylab	Apprentices	3 days	Shared robotic prototype	High
brigk	SMEs, students, apprentices	1 h to multi-month	Technology entry + mentored innovation	Low to high



Package	Target group	Typical duration	Primary mechanism	Equipment intensity
NOI	Adults, SMEs, artisans	Short to multi-session	Technical course or finished object	Medium to high
FabLab Zagreb	Secondary schools / outreach	Independent modules	Guided modular prototyping	Low to medium

Annex B - Assessment Questions and Templates

B.1 Common pre/post statements

- I understand the complete workflow covered by this programme.
- I can prepare the required digital data for the selected fabrication or programming process.
- I can use the relevant tool or machine according to the required safety procedure.
- I can select or adjust the main parameters that influence the result.
- I can identify a common error and test a suitable correction.
- I can apply the process to create a functional or communicable output.
- I can explain my technical decisions to another person.
- I can contribute effectively to a team-based digital project.
- I feel confident trying an unfamiliar digital tool.
- I know where to find further support, facilities or learning resources.

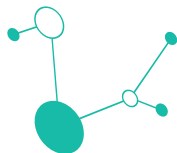
Recommended scale: 1 = not at all / cannot perform; 2 = limited; 3 = with some support; 4 = mostly independently; 5 = independently and able to explain.

B.2 Post-only questions

- How satisfied are you with the programme overall?
- How relevant was the programme to your work, study or project goals?
- How likely are you to apply the skills within the next three months?
- Which activity contributed most to your learning, and why?
- Where did you need more time, explanation or practice?
- What should be changed before the programme is repeated?

B.3 Facilitator observation checklist

- ☐ Participant follows equipment and safety instructions.
- ☐ Participant can move from explanation to practical action.
- ☐ Participant seeks or offers support appropriately.
- ☐ Participant tests and revises after an unsuccessful result.
- ☐ Participant can explain the output, the demonstrated learning outcomes and the next improvement.
- ☐ Team roles and contribution are sufficiently balanced.



Annex C - Toolkit Resource and Download Register

No.	Package	Expected resource set	Access	Final URL / version
1	Maker Engineering and Digital Manufacturing Engineering	Programme fiche; educator guide; workshops, workshop presentation, expert list, assessment	Public + registered + educator	https://skillnest.app/en/labs/stroj-lab
2	High School Competition and TechSprint	Programme fiche; educator guide; workshops, workshop presentation, expert list, assessment	Public + registered + educator	https://skillnest.app/en/labs/FLbrno
3	Digital Tools in Vocational Training	Programme fiche; educator guide; workshops, workshop presentation, expert list, assessment	Public + registered + educator	https://skillnest.app/en/labs/happy-lab
4	Digital Transformation Skills Programme	Programme fiche; educator guide; workshops, workshop presentation, expert list, assessment	Public + registered + educator	https://skillnest.app/en/labs/brigg-makerspace
5	LEARN IT! and MAKE IT!	Programme fiche; educator guide; workshops, workshop presentation, expert list, assessment	Public + registered + educator	https://skillnest.app/en/labs/noi-techpark
6	Idea to Prototype with Cutting-Edge Fabrication Technology	Programme fiche; educator guide; workshops, workshop presentation, expert list, assessment	Public + registered + educator	https://skillnest.app/en/labs/fab-lab-zagreb

Annex D - SkillNest Functionality and Screenshot Register

Figure	Functionality	Access level	Status on 23 July 2026
1	Landing page and stakeholder entry	Public	Verified
2	Workshop catalogue, search and filters	Public	Verified
3	Workshop details and metadata	Public	Verified
4-5	Embedded pre/post assessment	Public link	Verified
6	Materials access gate	Public / registered / role-based	Verified publicly
7	Labs network	Public	Verified
8	Experts directory and filters	Public	Verified
9	Account registration	Public	Verified

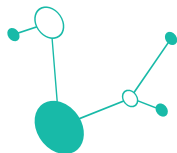


Figure	Functionality	Access level	Status on 23 July 2026
10	RE/UP information page	Public	Verified
–	Workshop/content administration	Educator / administrator	Admin evidence required
–	Assessment results and monitoring	Administrator	Admin evidence required

Annex E - Source Deliverables and Project Traceability

Toolkit element	Primary source	How reflected in D3.3.1
Project need and solution definition	Approved DiSTT Application Form	Chapters 1-2 and toolkit architecture
Joint design requirements	D1.3.1 Joint Blueprint	Common fiche structure and design principles
Partner programmes	D2.1.1 RE/UPskilling programmes	Six programme solutions
Pilot evidence and lessons	D2.2.1 LP1 and PP2-PP6 reports	Evidence, lessons, essential/adaptable elements
Joint evaluation	D2.3.1 Joint Evaluation Report	Common principles and assessment recommendations
Implementation guidance	D3.2.1 Implementation Guide	Adoption workflow and readiness
Digital implementation	SkillNest	Chapter 6 and screenshot register

Annex F - Toolkit Adoption Checklist

Selection

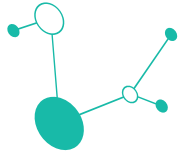
- ☐ The target skill gap and participant group are evidenced.
- ☐ A programme package and workshop format have been selected.
- ☐ Essential and adaptable elements have been reviewed.

Preparation

- ☐ Educator, technical support and safety responsibilities are assigned.
- ☐ Equipment, software, materials and contingency options are ready.
- ☐ Participant and educator resources use the correct version.
- ☐ Pre/post assessment and matching method are configured.

Delivery

- ☐ Participants understand objectives, prerequisites and expected output.



- ☐ Practical activity follows concise explanation and demonstration.
- ☐ Facilitators record observations and support differentiation.

Review and scale

- ☐ Response counts, practical outputs and limitations are documented.
- ☐ Participant, facilitator and stakeholder feedback is reviewed.
- ☐ Changes are versioned before the next delivery.
- ☐ Adoption feedback is shared with the programme owner or SkillNest contact.