9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

SDG 9 PROGRESS REPORT

Industry, Innovation and Infrastructure

How UNESA moved research toward industry in 2025 and 2026: funded downstreaming, a granted patent, an exhibition of 79 products, active business ventures, industry partners and field laboratories.



Visitors examine a mini vehicle prototype at the third UNESA Innovation Product Exhibition, Rectorate Building, Lidah Wetan Campus, Surabaya, 24 to 26 November 2025.

SDG 9 AT A GLANCE

Research that leaves the lab and reaches industry and users

SDG 9 asks universities to build industry, innovation and infrastructure that last: research that turns into products, new ventures, partnerships with companies and facilities others can use. This report shows how UNESA does this through national research funds, patents, an innovation exhibition, an incubation centre, company agreements and field laboratories. It covers activities in 2025 and 2026, and UNESA is in the 401–600 band for SDG 9 in the THE Impact Rankings 2026.

HOW UNESA WORKS ON SDG 9

The Directorate of Innovation, Ranking and Scientific Publication (IPPI) leads the work. It coaches researchers, runs the Business and Technology Incubation Centre (PIBT) at the Rectorate on the Lidah Wetan Campus and organises the Innovation Product Exhibition. The Institute for Research and Community Service (LPPM) records research outputs, and faculties such as Food Security, Engineering and Vocational Studies run their own laboratories, teaching factories and business units.

This report is one of seventeen: UNESA publishes a progress report on each SDG, covering its activities in 2025 and 2026. The evidence pages behind each report, with their sources, are on the SDGs Center website.

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SDG 9 online: every evidence page, with its sources, under SDG metrics at sdgscenter.unesa.ac.id

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GOVERNANCE AND FUNDING

A directorate that takes research to industry

UNESA's Directorate of Innovation, Ranking and Scientific Publication helps lecturers write proposals that industry can use, and in 2026 it brought 16 of them national funding.

16
UNESA proposals won national research-downstreaming funds in 2026

8 of 17
new proposals funded under the Industry-call scheme

3 of 6
second-year proposals continued under the same scheme

4 of 28
proposals funded under the national Sinergi 2026 scheme

NATIONAL FUNDS

In 2026 the Ministry of Higher Education, Science and Technology funded 16 UNESA research proposals through its Directorate of Downstreaming and Partnership. Eleven came from the Industry-call scheme, made up of eight new and three second-year proposals. One came from the Technology-Push scheme and four from Sinergi 2026. The directorate's director said the funding shows that UNESA research can be taken further until industry and communities can use it.

HELP BEFORE THE CALL

On 8 January 2026 the directorate held a coaching clinic in the training room of the PIBT incubation centre. The guest speaker, from the research centre of Politeknik Negeri Surabaya, told lecturers to start from a clear product with a new feature, to show a tested prototype and to name the industry partner's role. One-year proposals aim at the last step before sale. Three-year proposals set out stages of technology readiness from level 7 to level 9, with milestones.

STANDARDS FOR CAMPUS PRODUCTS

On 20 August 2026 the directorate held two briefings at the PIBT building with the state inspection company SUCOFINDO. The first explained how to certify the local-content level (TKDN) of a product, which public and state-company buyers check in procurement. The second covered testing of equipment against national SNI standards, from grass cutters and forage choppers to generator sets, floating pumps and electric patient beds.

EMPLOYERS AT THE TABLE

From 3 to 5 February 2026 UNESA held its first Employer Collaboration Forum in Sidoarjo, with more than 150 employers from education, industry and business. The vice-rector for education asked employers to help shape curricula, teach as practitioners and offer six-month internships. The forum is planned as a yearly event and was supported by equity funding with the LPDP education fund.

HOW THE DIRECTORATE WORKED WITH INDUSTRY, 2026

DATE	ACTIVITY	WITH
8 Jan 2026	Coaching clinic on industry-ready research proposals	Research centre of Politeknik Negeri Surabaya; held in the PIBT training room
3 to 5 Feb 2026	First Employer Collaboration Forum	More than 150 employers
10 Aug 2026	Announcement of 16 funded downstreaming proposals	Ministry's Directorate of Downstreaming and Partnership
20 Aug 2026	Briefing on local-content (TKDN) certification of campus products	SUCOFINDO, Surabaya branch; held at the PIBT building
20 Aug 2026	Briefing on equipment testing to national SNI standards	SUCOFINDO, Surabaya branch; held at the PIBT building

RESEARCH IN USE

579 of 1,332 research outputs put to use

UNESA counts a research output as in use only when a vulnerable group or a priority region has used it and a record shows it. In 2025 that was 43.47% of its outputs.

WHAT COUNTS AS IN USE

The measure follows Ministerial Decree No. 361/M/KEP/2025. A user statement, a cooperation agreement, a handover record or an implementation report must prove the use. The Institute for Research and Community Service supplies the data.

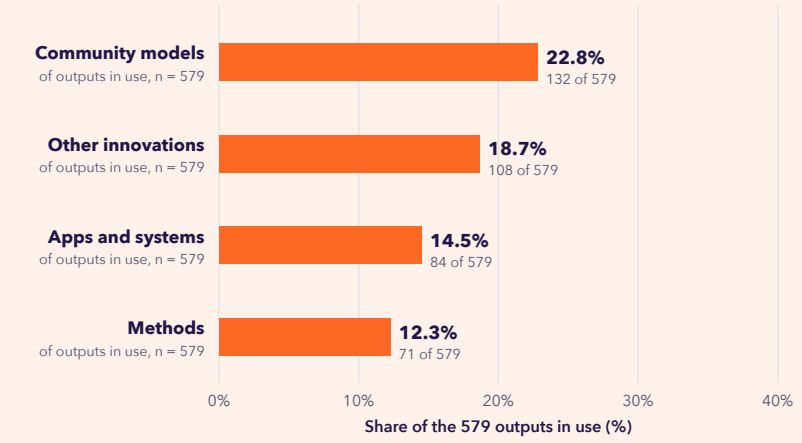
FOR CRAFT AND INDUSTRY

An automatic pneumatic multipurpose hot-press machine with a double tray and a digital counter serves the leather labelling industry and raises the productivity of craftspeople. A standardised tempe production machine package, developed with a village self-help group, makes production hygienic and efficient.

FOR FARMS AND SCHOOLS

A transparent drying house powered by solar cells and fitted with temperature and humidity control dries farm produce in a controlled and environmentally friendly way. Researchers also built a portable, solar-powered literacy and numeracy device that pupils with special needs use through sight, sound and touch.

What the 579 outputs in use were



Source: UNESA Impact Report 2025. Three smaller types (116 outputs) not shown.

WHO USED THE RESEARCH OUTPUTS IN 2025

GROUP OF USERS	OUTPUTS USED	SHARE OF 579
Women, children, older people and indigenous communities	346	59.8%
Other groups designated as development priorities	122	21.1%
People with disabilities	84	14.5%
Low-income households	10	1.7%
Coastal, island, border, inland and outermost-region communities	9	1.6%

PATENTS AND INVENTIONS

From a granted patent to an exhibition of 79 products

UNESA researchers received patent recognition in 2025, and the third Innovation Product Exhibition showed partners 79 products made by lecturers and students.

27 Nov 2025
date the Faculty of Food Security received patent No. 1DP000102376

79
products at the Innovation Product Exhibition, 24 to 26 November 2025

50%
potential energy saving in trials of the EyeON smart street light

3
clusters: industrial automation, green technology, digital solutions

A PATENT FOR FUNCTIONAL FOOD

On 27 November 2025 the Faculty of Food Security received patent certificate No. 1DP000102376 from the Ministry of Law for the formula and production process of a herbal yoghurt ice cream made with butterfly pea flower. The application was filed on 4 December 2022. The faculty is preparing a production laboratory so the product can be sold under its own brand.

AN AWARD FOR AN AI PATENT

In October 2025 a lecturer of the Artificial Intelligence programme won the Ministry's High Impact Intellectual Property Incentive for a patented method that detects violent acts automatically in surveillance video.

THE EXHIBITION

The third Innovation Product Exhibition ran in the Rectorate Building on the Lidah Wetan Campus, where partners came to see the products. EyeON, a street light that adjusts its brightness to traffic with a camera and edge computing, showed potential energy savings of up to 50% in trials. Other exhibits included an AI-guided vehicle prototype and a physics learning tool that combines eye tracking with virtual reality. The medical faculty showed a website that monitors children's growth, a cancer-awareness game and a mouthguard service for athletes.

SMART SANITATION

On 17 December 2025 UNESA won first place in the social and population category of the Surabaya city innovation awards, Inovboyo 2025, with EMOSS, a portable toilet with biological wastewater treatment and solar panels. It also won the awards for the most innovation nominations and the best exhibition stand.

EXHIBITS AT THE THIRD INNOVATION PRODUCT EXHIBITION, 2025

CLUSTER	EXHIBITS	WHAT THEY DO
Industrial automation	Mini Industrial System 4.0, Omron pneumatic trainer, electric motor propulsion test tool	Teach and test automated production and electric propulsion
Green technology	Agricultural drone sprayer, exhaust redesign with a metallic converter	Spray crops from the air; an exhaust designed to be environmentally friendly
Digital solutions for education and health	DigiGuru, Neo Sorogan, STRAPS-R, AEGIS-Net, MedLoc	Support teaching and health care with apps and IoT devices
Featured exhibits	EyeON street light, AI-guided vehicle prototype, EYePHY EDU	Save energy on roads, follow a path by computer vision, track pupils' focus in VR physics lessons

BUSINESS AND INCUBATION

14 business entities still active in 2025

Incubation, teaching factories and student enterprise programmes at UNESA have grown into working businesses, and the 2025 impact report counts 14 of them as active.

14
business entities active in 2025

2
tenants coached by the PIBT incubation centre

7
teaching-factory brands run by faculties and programmes

5
other ventures in the report

INCUBATED TENANTS

PIBT coaches tenants that turn research and ideas into products. In 2025 Saga Carita widened its reach through exhibitions and promotion events in Surabaya, which opened cooperation with several parties. Batik Ningkoe worked with Gala Batik and the East Java Regional Craft Council, which took it to INACRAFT 2025, one of the largest craft exhibitions in Indonesia.

TEACHING FACTORIES

In teaching factories, study programmes sell real products and services while students learn quality, operations and customer relations. Boganesa, Boponesa, Fashionesa and Glownesa were launched at the Faculty of Engineering's technology week on 28 September 2024 by lecturers, students and alumni, and the report counts them as active in 2025.

A FACULTY BUSINESS UNIT

On 1 April 2026 the Faculty of Food Security opened Agrinesa Mart as a business unit in its own corridor. It sells fresh produce, livestock products and processed food and drink made by staff and students, and it works as a business laboratory where students learn distribution and the supply chain.

STUDENT VENTURES

In May 2026 students of the Informatics Management programme in the Faculty of Vocational Studies won national student-entrepreneur funding (P2MW Belmawa). In June 2026 an Artificial Intelligence student team won funding from the Faculty of Mathematics and Natural Sciences' student-entrepreneur programme (PMW 2026) for NexaMind Solutions, a digital services venture for small businesses and schools. On 21 May 2026 a UNESA information systems student was runner-up at the national final demo day of the MAJU:ON Green Start-up Program.

UNESA'S 14 ACTIVE BUSINESS ENTITIES, 2025

ENTITY	FIELD AND ROUTE	ENTITY	FIELD AND ROUTE
Saga Carita	Creative industry and media; incubated tenant	Vision and Motion Academy	Education and training
Batik Ningkoe	Fashion and beauty (batik); incubated tenant	Kanvanesa	Culinary; teaching factory
Wipin Tech	Technology and digital	Boganesa	Culinary; teaching factory
Training Ground Academy	Education and training	Fashionesa	Fashion and beauty; teaching factory
Fasdeva	Fashion and beauty; teaching factory	Glownesa	Fashion and beauty; teaching factory
Moving Time	Creative industry and media	Boponesa	Automotive; teaching factory
Tag Us	Creative industry and media	Vocafit	Sport and wellness; teaching factory

INDUSTRY AND PUBLIC PARTNERS

Companies and public bodies at the table

Between August 2025 and July 2026 UNESA faculties began joint work with a hospital, a research agency, three companies and two city offices.

3
companies began joint work with UNESA faculties, May to July 2026

2
SUCOFINDO briefings for campus innovators, 20 August 2026

150+
employers at the Employer Collaboration Forum, February 2026

LIVESTOCK AND FOOD

On 24 June 2026 the Animal Bioscience and Food Technology programmes of the Faculty of Food Security signed an agreement with PT Mitra Ternak in Tuban. It sets a joint research timeline for demonstration plots of red elephant grass and legumes as cattle feed, and the evaluation of the animal products that result.

ENERGY FROM WASTE

On 8 May 2026 the dean of the Faculty of Food Security met the directors of PT Petrogas Jatim Utama Cendana to explore joint research on turning waste into renewable energy. The plan joins the faculty's bioscience and food technology with the company's industrial capacity and opens internships for students.

LOGISTICS AND ARTIFICIAL INTELLIGENCE

On 3 July 2026 the Artificial Intelligence programme signed a cooperation agreement with PT Pos Indonesia, Regional V East Java, Bali and Nusa Tenggara. It opens practitioner lectures, internships, industry visits and joint research on AI for logistics. During the visit, teachers on a training programme saw the company's AI parcel-sorting robot at work.

HEALTH AND THE CITY

On 26 August 2025 the same programme began putting into practice its research agreement with RSU Bunda Jakarta and the national research agency BRIN, which uses AI on lung-area images to detect how severe tuberculosis is. On 28 July 2026 academics of the Faculty of Food Security surveyed urban plots with Surabaya's Food Security and Agriculture Office and its Research and Innovation Agency. They are drawing up hydroponic, aquaponic and precision-climate methods for an urban farming incubator.

PARTNERS AND WHAT THEY DO WITH UNESA, 2025 AND 2026

DATE	PARTNER	JOINT WORK	UNESA SIDE
26 Aug 2025	RSU Bunda Jakarta and BRIN	AI on lung-area images to detect how severe tuberculosis is	Artificial Intelligence programme
8 May 2026	PT Petrogas Jatim Utama Cendana	Joint research on turning waste into renewable energy; student internships	Faculty of Food Security
24 Jun 2026	PT Mitra Ternak, Tuban	Demonstration plots of red elephant grass and legumes for cattle feed	Animal Bioscience and Food Technology programmes
3 Jul 2026	PT Pos Indonesia, Regional V	Practitioner lectures, internships, industry visits, AI research on logistics	Artificial Intelligence programme
28 Jul 2026	Surabaya DKPP and BRIDA	Survey of urban plots; plans for an urban farming incubator	Faculty of Food Security
20 Aug 2026	SUCOFINDO	Briefings on TKDN certification and SNI equipment testing	Directorate IPPI

Students who build, test and compete

UNESA students tested ideas against industry problems in internships and national contests in 2025 and 2026.

80
proposals chosen for BRIN AIDeaNation 2025 pitching; two UNESA teams were among them

1st
place at the national EPIC contest, May 2026, for AI detection of rice leaf disease

3rd
place at Dolanan Data NEXUS, 7 June 2026, for flood mapping from drone images

Runner-up
at the MAJU:ON Green Start-up final, 21 May 2026

INSIDE INDUSTRY

Mechanical Engineering students worked in industry as part of their studies. From 1 September to 31 December 2025 one student joined the maintenance team of the PLN Nusantara Power plant in Gresik and used eddy-current testing to check the tubes of a high-pressure heater. Another worked from 4 to 10 December 2025 in the piping and ventilation design bureau of PT PAL Indonesia, the country's largest shipyard. Others spent four months in the maintenance departments of PT Petrokimia Gresik, from October to January.

IDEAS FOR THE MARKET

In September 2025 two Artificial Intelligence teams reached the pitching round of BRIN AIDeaNation in Jakarta. One proposed an AI fact-checking platform. The other proposed an IoT and AI smart grid for a geothermal power plant in East Nusa Tenggara. In November 2025 students of Natural Science Education reported a non-food bioplastic made from cigarette-butt waste as a replacement for conventional plastic.

CONTESTS

An AI student team won first place at the EPIC national scientific paper contest in May 2026 with a deep-learning method that detects rice leaf disease. On 6 and 7 June 2026 a Data Science team won third place at Dolanan Data NEXUS at Telkom University Surabaya with FloodMap, a flood-mapping system that learns from drone images.

SKILLS FOR NEW WORK

The Informatics Engineering and Information Systems programmes opened a double-degree international undergraduate programme with the Beijing Chemical University of Technology (BCUT) in China, with admissions from the 2026/2027 academic year.

STUDENT WORK WITH INDUSTRY AND INNOVATION, 2025 AND 2026

WHEN	WHAT STUDENTS DID	WHERE
1 Sep to 31 Dec 2025	Eddy-current testing of power plant heater tubes	PLN Nusantara Power, Gresik
2 to 4 Sep 2025	Pitched an AI fact-checking platform and a geothermal smart grid	BRIN AIDeaNation, Jakarta
4 to 10 Dec 2025	Piping and ventilation design internship	PT PAL Indonesia
May 2026	First place for AI detection of rice leaf disease	EPIC national contest
21 May 2026	Runner-up with a green business prototype	MAJU:ON Green Start-up final
6 and 7 Jun 2026	Third place for FloodMap, flood mapping from drone images	Dolanan Data NEXUS, Surabaya

FACILITIES AND INFRASTRUCTURE

Field laboratories, test services and smart sanitation

UNESA builds facilities where students and researchers can test technology: farms that run on water-saving systems, laboratories that check food safety and services that test equipment to national standards.

AQUAFARM

The Aquaculture programme's AquaFarm in the Faculty of Food Security is a field laboratory for teaching, research and community service. On 3 August 2026 students and lecturers from the University of Malaya toured it during a student inbound mobility programme. They saw an aquaponic system in which fish waste feeds plants, biofloc units that raise tilapia and catfish with efficient feed and clean water, and hydroponic beds that grow plants without soil.

OPEN GREEN LABORATORY

On 7 January 2026 the Digital Agribusiness programme harvested organic water spinach from the Open Green Laboratory of the Faculty of Food Security at the UNESA 3 campus. The crop grows on hydroponic racks with organic nutrients and controlled conditions, and technicians and staff worked with the students.

FOOD SAFETY LABORATORY

On 12 December 2025 the deputy dean of the Faculty of Food Security led her team in preparing culture media to identify bacteria in beef samples, for an international research collaboration of Western Australian and East Java universities. The faculty describes its laboratory as a centre for quality testing.

TESTING TO NATIONAL STANDARDS

The SUCOFINDO briefing of 20 August 2026 at the PIBT building set out how equipment is tested. It covers dimensions, speed, fuel use and noise for grass cutters and forage choppers, water output for floating pumps, protection and load tests for generator sets, and electrical safety tests for electric patient beds, so that campus-made equipment can reach the market.

SMART SANITATION

EMOSS, the sanitation system that won first place in the Inovboyo 2025 city awards, is a modular toilet that treats wastewater on the spot with a moving-bed biofilm reactor and runs on solar panels. The treated water can flush toilets or irrigate crops and was designed to meet the national domestic wastewater standard.

INNOVATION CENTRE

The PIBT building on the Lidah Wetan Campus hosts the incubation tenants, the training room for proposal clinics and the briefings with industry. Visiting school students are shown how a product passes from research and prototype to packaging.



Students and visitors at the biofloc tanks of the Aquaculture programme's AquaFarm, Faculty of Food Security, during a field-work session on 3 August 2026.

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The 33 documents behind this report

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About this report

UNESA's progress report on SDG 9, Industry, Innovation and Infrastructure, covering activities in 2025 and 2026. It is one of seventeen reports, one for each SDG. The full evidence pages, with every source, are at sdgscenter.unesa.ac.id.