Best Practices Sheets

Case studies are grouped under three project categories:

- ethical & sustainable use: guidance on how to use AI responsibly and sustainably in business ventures;
- examples and case studies: real-life examples of successful AI ventures, including lessons learned and best practices;
- problem-solving tips: advice on overcoming common challenges in developing and managing AI-driven businesses, promoting innovation and adaptability.

Each sheet outlines effective strategies for implementing AI projects responsibly and sustainably, promoting ethical entrepreneurship and social impact through real-world AI applications.

Within each category, the sheets from the contributing partners are presented in sequence.

Collected by PPs

Document prepared by t2i

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Note: Co-funded by the European Union. Views and opinions expressed are, however, those of the author(s) only and do not necessarily reflect those of the European Union or the European Education and Culture Executive Agency (EACEA). Neither the European Union nor the granting authority can be held responsible for them.

CATEGORY 1

Ethical & Sustainable Use

Guidance on how to use AI responsibly and sustainably in business ventures.

dotLumen (.lumen) — Asociatia Edutex · Romania

Section 1 · General Information

Field	Details
Fiche n.	1
Partner Organization	Asociatia Edutex
Date of Research	29/05/2026
Country of Origin	Romania
Website / Primary Source	https://www.dotlumen.com
Secondary Source (desk research)	Focus articles from EU-Startups, Forbes Romania, and Horizon Europe social innovation repositories.

If Best Practice refers to Category: Ethical & Sustainable Use

Focus Area	Evidence from Primary/Desk Research
Data Ethics & Privacy	dotLumen uses advanced computer vision and spatial AI algorithms to map environments in real time. To ensure alignment with GDPR and ethical standards, all environmental visual data captured by the headset's sensors is processed strictly on the edge (locally on the device). No video feeds or personal identifying information of bystanders are stored or transmitted to external servers, mitigating privacy risks and data leakage. Algorithms are trained on highly diverse spatial data to eliminate structural biases in object and obstacle recognition.
Environmental Sustainability	dotLumen emphasizes Green AI principles by optimizing its computer vision algorithms to run efficiently on ultra-low-power edge-computing hardware. This minimizes the energy consumption and high carbon footprint typically associated with heavy, continuous cloud-based AI processing.
Social Value Proposition	There are over 40 million blind individuals globally, yet only a fraction can access or afford a guide dog. dotLumen fosters active citizenship and social inclusion by providing a scalable, affordable, high-tech alternative. It empowers visually impaired users with independent mobility, facilitating safer navigation through urban infrastructure, access to public spaces, and integration into educational or professional settings.
Contribution to SDGs	**SDG 3 (Good Health and Well-being):** Enhancing safety and psychological well-being for individuals with disabilities. **SDG 10 (Reduced Inequalities):** Promoting the social, economic, and political inclusion of all, irrespective of disability. **SDG 11 (Sustainable Cities and Communities):** Improving accessibility to safe, affordable and sustainable transport and urban spaces for vulnerable populations.

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Section 2 · Evaluation & Key Takeaways

Aspect	Synthesis
Why is this a "Best Practice"?	dotLumen represents a benchmark for "AI for Social Good". It takes advanced autonomous-driving architecture and successfully scales it down into an ethical, human-centric wearable device. It showcases how high-tech entrepreneurship can be highly profitable and investment-backed while keeping human dignity and accessibility as its core mission.
Identified Challenges	**Technical:** Condensing high-speed spatial AI mapping and processing into a lightweight device without causing overheating or rapid battery depletion. **Regulatory:** Navigating the complex safety certification processes for assistive technologies and medical-adjacent devices within the EU.
Transferability	High. The foundational spatial AI and edge-processing framework can be readily transferred to other assistive technologies, industrial safety gear, or regional contexts looking to improve urban accessibility for vulnerable demographics.

Sources

- EU-Startups directory listing: https://www.eu-startups.com/directory/dotlumen/
- .lumen Blog – nationwide roadshow: https://www.dotlumen.com/post/lumen-tours-romania-with-a-nationwide-roadshow
- Vestbee – €11M funding: https://www.vestbee.com/insights/articles/dot-lumen-secures-11-m
- EIT – CES 2026 Accessibility Award: https://www.eit.europa.eu/news-events/news/romanian-deep-tech-startup-lumen-wins-accessibility-award-ces-2026

AI4Belgium — BRGD · Belgium

Section 1 · General Information

Field	Details
Fiche n.	2
Partner Organization	BRGD
Date of Research	17/06/2026
Country of Origin	Belgium
Website / Primary Source	https://bosa.belgium.be/fr/AI4Belgium#anchor-3
Secondary Source (desk research)	https://regulations.ai/regulations/belgium-2019-3-ai4belgium

If Best Practice refers to Category: Ethical & Sustainable Use

Focus Area	Evidence from Primary/Desk Research
Data Ethics & Privacy	AI4Belgium is a national coalition made to promote responsible development and use of AI in Belgium. It aligns directly with the EU AI Act, the GDPR and ethical guidance through the ALTAI tool developed by the European Commission, supporting improvement of FAIR data availability alongside secure data sharing and consumer protection rules.

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Focus Area	Evidence from Primary/Desk Research
Environmental Sustainability	AI4Belgium checks the trustworthiness of an AI tool using the ALTAI-based assessment and transparency reports. ALTAI's assessment holds societal and environmental well-being in high regard alongside transparency and fundamental rights. The coalition cannot issue administrative penalties, so it instead operates alongside Belgium's legal regime such as the GDPR and sector-specific frameworks.
Social Value Proposition	By following the AI Act, GDPR and ALTAI, AI4Belgium ensures that the innovation AI brings is inclusive of all people — no bias, no discrimination — while human dignity and privacy are kept intact. Human oversight remains prominent, and AI4Belgium aims to give SMEs and public bodies greater access to AI through best-practice templates, assessment tooling and connections to research partners.
Contribution to SDGs	**Primary:** SDG 4 (Quality Education), SDG 8 (Decent Work and Economic Growth), SDG 9 (Industry, Innovation and Infrastructure). **Secondary:** SDG 10 (Reduced Inequalities), SDG 11 (Sustainable Cities and Communities), SDG 13 (Climate Action).

Section 2 · Evaluation & Key Takeaways

Aspect	Synthesis
Why is this a "Best Practice"?	AI4Belgium is a coalition that helps organisations develop and use AI responsibly by setting expectations directly from EU regulations (GDPR, AI Act). Through its ALTAI assessment tool, recurring events, webinars and working groups with companies, universities and public administrations, it teaches EU regulation and helps organisations start using AI responsibly and efficiently. Its strategy rests on three criteria: the competitive advantage of Belgian companies, high-value use cases, and improving quality of life. The plan foresees €80 million per year for AI, targeting a cumulative billion by 2030 to stay competitive with other European countries, the US and China.
Identified Challenges	**Regulatory:** Operating under EU regulation means the coalition cannot act immediately on penalties and liabilities, which fall under Belgian law, including standard administrative and judicial remedies. **Ethical:** The main focus is industrial AI development in Belgium rather than sustainability and climate action, so ethical and responsible use must counterbalance this emphasis.
Transferability	This strategy can be applied to other regions and countries, since the process runs through EU regulations to which all EU Member States must adhere.

Sources

- AI4Belgium AI Assessment Tool (ALTAI): https://altai.ai4belgium.be
- Digital Wallonia – responsible AI charter (29/08/2025): https://www.digitalwallonia.be/fr/publications/ia-responsable-services-publics-belgique/
- SPF BOSA – AI expertise centre: https://bosa.belgium.be/fr/services/centre-dexpertise-en-intelligence-artificielle
- Official PDF – AI 4 Belgium Strategy EN (19/04/2019): https://www.politico.eu/wp-content/uploads/2019/03/AI_4_Belgium_Strategy_EN.pdf

Co-funded by the European Union

INNOFEIT EDIH — INNOVA LAB Bitola · North Macedonia

Section 1 · General Information

Field	Details
Fiche n.	3
Partner Organization	Center for Educational and Development Initiatives INNOVA LAB Bitola
Date of Research	28/06/2026
Country of Origin	North Macedonia
Website / Primary Source	https://innofeit-edih.mk/
Secondary Source (desk research)	European Digital Innovation Hubs — INNOFEIT EDIH.

If Best Practice refers to Category: Ethical & Sustainable Use

Focus Area	Evidence from Primary/Desk Research
Data Ethics & Privacy	INNOFEIT EDIH promotes the responsible adoption of AI and digital technologies by supporting organizations in implementing trustworthy, human-centred AI solutions. Through its free "Test Before Invest" service, expert consulting and access to testing facilities, the hub lets SMEs and public organisations validate digital and AI solutions at no cost before committing to investment, enabling informed, lower-risk decisions.
Environmental Sustainability	Environmental sustainability is a core element of the hub's activities. It supports AI-enabled and digital solutions for smart manufacturing, smart agriculture, energy efficiency and resource optimization, helping organizations reduce waste, improve operational efficiency, and accelerate the green and digital transition.
Social Value Proposition	INNOFEIT EDIH strengthens the digital innovation ecosystem in North Macedonia by supporting SMEs, public institutions, researchers, entrepreneurs and start-ups. Through training, mentoring, networking and technology transfer it improves digital skills, encourages innovation and increases access to advanced AI, contributing to inclusive economic development and stronger collaboration between academia, industry and the public sector.
Contribution to SDGs	SDG 8 (Decent Work and Economic Growth), SDG 9 (Industry, Innovation and Infrastructure), SDG 11 (Sustainable Cities and Communities) and SDG 12 (Responsible Consumption and Production), by supporting sustainable innovation, digital transformation and the responsible adoption of advanced technologies.

Section 2 · Evaluation & Key Takeaways

Aspect	Synthesis
Why is this a "Best Practice"?	INNOFEIT EDIH demonstrates how AI and digital innovation can support sustainable economic growth, technological advancement and responsible digital transformation. By combining AI adoption services, expert support, digital skills development and collaboration between academia, industry and the public sector, the hub creates a practical model for accelerating

Aspect	Synthesis
	innovation while promoting sustainability, competitiveness and responsible technology adoption.
Identified Challenges	**Technical:** Supporting organizations with different levels of digital maturity while ensuring effective integration of AI into existing processes. **Regulatory:** Helping businesses and public institutions align AI solutions with evolving European regulations, including data protection, cybersecurity and the AI Act. **Organizational:** Encouraging SMEs and public institutions to adopt innovative digital solutions despite limited resources, skills gaps and resistance to change.
Transferability	High. The INNOFEIT EDIH model can be replicated in other countries and regions seeking to accelerate AI adoption. Its integrated approach — technology testing, expert mentoring, digital skills development and innovation support — provides a transferable framework for SMEs, public institutions, research organizations and regional innovation ecosystems.

Sources

- INNOFEIT EDIH: https://innofeit-edih.mk/
- European Digital Innovation Hubs catalogue: https://european-digital-innovation-hubs.ec.europa.eu/edih-catalogue/innofeit-edih

Hugo.lv — Visas Iespējas · Latvia

Section 1 · General Information

Field	Details
Fiche n.	4
Partner Organization	Visas Iespējas
Date of Research	19/06/2026
Country of Origin	Latvia
Website / Primary Source	https://hugo.lv/en
Secondary Source (desk research)	ES Funds — "Hugo.lv – European leader in language technologies".

If Best Practice refers to Category: Ethical & Sustainable Use

Focus Area	Evidence from Primary/Desk Research
Data Ethics & Privacy	Hugo.lv is managed by the Culture Information Systems Centre, a direct state administration body; its privacy disclaimer states that technical and organisational measures protect personal data in line with the GDPR. The platform uses Latvija.lv authentication for logged-in users and limits access to personal workspaces. Data retention is clearly defined: translation text is deleted when the interface is closed; uploaded documents after download or automatically within five days; speech-recognition transcriptions after five days. For contributed language resources, users choose the status ("Open" or "Limited") and the administrator may anonymise personal data.

Focus Area	Evidence from Primary/Desk Research
	Statistical cookie data are stored only on servers managed in Latvia. The platform does not publish a full model card or bias-audit report but follows a strong public-sector privacy-by-design approach.
Environmental Sustainability	Its sustainability value is mainly systemic and indirect: Hugo.lv is a shared national AI infrastructure for public administration rather than many separate tools procured by each institution. Through APIs and a common platform, state and local institutions reuse the same translation, speech-recognition, speech-synthesis, easy-language and virtual-assistant services, supporting digital-by-default public services and reducing administrative friction.
Social Value Proposition	Hugo.lv promotes social inclusion by making Latvian public administration information and e-services more accessible. Freely available to every resident, it offers automatic translation, speech recognition, speech synthesis, an easy-language tool, a Latgalian spelling tool and virtual assistants. It was adapted to the needs of visually impaired and dyslexic users. For youth and young entrepreneurs, the transferable lesson is that AI can serve as public digital infrastructure that lowers access barriers, not only as a commercial productivity tool.
Contribution to SDGs	**Primary:** SDG 10 (Reduced Inequalities), SDG 16 (Peace, Justice and Strong Institutions), SDG 9 (Industry, Innovation and Infrastructure). **Secondary:** SDG 4 (Quality Education), SDG 11 (Sustainable Cities and Communities).

Section 2 · Evaluation & Key Takeaways

Aspect	Synthesis
Why is this a "Best Practice"?	Hugo.lv applies AI to a clear public-interest need: making state administration information and e-services more accessible, multilingual and usable. It combines machine translation, speech recognition, speech synthesis, easy-language support, Latgalian spelling tools and virtual assistants in one public platform. Its ethical value lies in the governance model — state-managed, free to use, linked to Latvija.lv authentication and supported by published privacy and retention rules — which matters because public-sector data may be sensitive. It also supports smaller-language digital inclusion, and its WSIS Champion Award recognition confirms its international visibility as an example of ICT for digital inclusion and linguistic diversity.
Identified Challenges	**Technical:** Maintaining high-quality translation and speech services for Latvian, Latgalian and specialised terminology, which requires continuous data and model updates; smaller languages have fewer resources. **Ethical & privacy:** Processing potentially sensitive texts, documents and audio demands strict retention rules, access control and anonymisation. **Regulatory & transparency:** Strong privacy information exists, but detailed model cards, carbon-footprint reporting and bias-testing results are missing. **Operational:** Public-sector AI tools require long-term maintenance, funding, security audits and updates.
Transferability	High. The model can be adapted by other countries, especially those with smaller or less-resourced languages, multilingual public services or strong

Aspect	Synthesis
	digital-government ambitions. Transferable elements: a public-interest AI platform, clear data-retention rules, API access for institutions, reusable translation/speech services, accessibility tools and public-sector control of sensitive data. Within YAIE it can inspire youth organisations and young entrepreneurs to design AI services that are efficient, trustworthy, accessible and socially useful.

Sources

- Hugo.lv: https://hugo.lv/en
- ES Funds — European leader in language technologies: https://www.esfondi.lv/en/implemented-projects/inspirational-stories/hugo-lv-eiropas-valodu-tehnologiju-lideris

Teti AI — t2i · Italy

Section 1 · General Information

Field	Details
Fiche n.	5
Partner Organization	t2i
Date of Research	25/06/2026
Country of Origin	Italy
Website / Primary Source	https://teti.ai/chat
Secondary Source (desk research)	AgenSalute — "Nasce Teti, AI anti-big-tech e human-centric…" (23/06/2026).

If Best Practice refers to Category: Ethical & Sustainable Use

Focus Area	Evidence from Primary/Desk Research
Data Ethics & Privacy	Data-free architecture. The system does not include a repository to be filled and does not accumulate personal data to improve the product. The stated core principle is: "what the user writes stays where it was written".
Environmental Sustainability	By adopting a privacy-first, data-minimisation architecture, Teti unlike services whose business model depends on analysing user conversations, Teti does not train its models on user chats, does not track user behaviour and does not resell data; conversations are retained only to provide contextual memory and continuity, for limited periods, and can be fully deleted at the user's request. The assistant's knowledge does not come from stored user conversations but from the underlying pre-trained language model, so data deletion does not affect the quality or currency of its answers.
Social Value Proposition	A human-centric approach against concerning models. The initiative defines itself as "human-centric" and stands in contrast to concerning AI models, addressing the cognitive effects of AI by offering an alternative to Big Tech under the motto: "Think free. AI that works with you, not on you".

Focus Area	Evidence from Primary/Desk Research
Contribution to SDGs	**SDG 9 (Innovation & Infrastructure):** Drives Green AI via a "No-Storage" architecture that eliminates energy-hungry data centres. **SDG 12 (Responsible Consumption):** Promotes responsible data management by refusing to accumulate, store or commercialize user inputs. **SDG 8 (Decent Work & Economic Growth):** Fosters ethical growth through a human-centric approach aligned with AI Act compliance.

Section 2 · Evaluation & Key Takeaways

Aspect	Synthesis
Why is this a "Best Practice"?	Teti AI proves that innovation can exist without data retention. By implementing a system that does not accumulate personal data and strictly applying the principle "what the user writes stays where it was written", it eliminates user privacy risks at the root.
Identified Challenges	**Technical:** Delivering an effective system without building a repository to be filled. **Ethical:** Improving the product without accumulating or using personal data, refusing the standard practice of leveraging user inputs for optimization.
Transferability	Highly transferable. Decoupling service delivery from data retention and using automated risk-navigation tools can be readily applied to any sector handling sensitive information, including legal tech, healthcare, finance and public administration globally.

Sources

- Teti AI: https://teti.ai/chat
- AgenSalute (23/06/2026): https://agensalute.it/2026/06/23/nasce-teti-ai-anti-big-tech-e-human-centric-che-si-contrappone-ai-modelli-di-intelligenza-artificiale-che-piu-preoccupano/

CATEGORY 2

Examples and Case Studies

Real-life examples of successful AI ventures, including lessons learned and best practices.

DRUID AI — Asociatia Edutex · Romania

Section 1 · General Information

Field	Details
Fiche n.	1
Partner Organization	Asociatia Edutex
Date of Research	02/06/2026
Country of Origin	Romania
Website / Primary Source	https://www.druidai.com
Secondary Source (desk research)	EU-Startups ("Romanian startup DRUID AI raises €26 million to accelerate agentic AI platform").

If Best Practice refers to Category: Examples and Case Studies

Item	Analysis
Description	Global enterprises (in healthcare, banking and higher education) face immense challenges in scaling customer and employee support. Traditional customer-service models and basic rule-based chatbots are inefficient and fail to resolve complex, multi-step user problems.
Challenge	Businesses need a highly intelligent, secure conversational AI system capable of understanding complex human intent, connecting directly to legacy enterprise databases, and taking autonomous action to resolve user queries without human intervention.
Solution provided	DRUID AI developed an end-to-end "Agentic AI" orchestration platform. Using advanced NLP and Large Language Models, its AI agents do not just chat — they autonomously execute business processes. In healthcare, the AI handles patient support with 96% accuracy; in higher education, it scales student enrollment support 24/7. DRUID AI recently secured a $31M Series C funding round to scale this solution globally.

Section 2 · Evaluation & Key Takeaways

Aspect	Synthesis
Why is this a "Best Practice"?	DRUID AI is a premier example of how conversational AI can be transitioned into "Agentic AI", where the technology actively solves problems rather than just providing information. It demonstrates massive economic viability and successful scaling from a regional startup to a global enterprise partner.
Identified Challenges	**Technical:** Integrating deeply with highly secure and outdated legacy enterprise systems (such as hospital EMRs or banking core systems) without compromising data security.

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Aspect	Synthesis
	Accuracy: Eliminating AI "hallucinations" to ensure accurate, governed responses in critical sectors like healthcare and finance.
Transferability	The underlying Agentic AI architecture is universally transferable across virtually any sector that requires heavy data processing, customer interaction, or internal HR/IT support.

Sources

- Company press release – $31M Series C: https://www.druidai.com/news/druid-ai-raises-31-million-series-c
- AIN – Series C coverage: https://en.ain.ua/2025/09/18/druid-ai-raises-31m/
- EU-Startups – Series B context: https://www.eu-startups.com/2023/09/bucharest-based-druid-bags-e22-4-million-series-b-to-boost-productivity-through-generative-ai/

Mindoo.ai — BRGD · Belgium

Section 1 · General Information

Field	Details
Fiche n.	2
Partner Organization	BRGD
Date of Research	17/06/2026
Country of Origin	Belgium
Website / Primary Source	https://mindoo.ai
Secondary Source (desk research)	Official website article / articles / LinkedIn post.

If Best Practice refers to Category: Examples and Case Studies

Item	Analysis
Description	For several years, more healthcare centres and hospitals have been challenged with fewer staff. Facilities get crowded for different reasons and lack enough people to care for patients amid an overloading workflow and heavy paperwork.
Challenge	Healthcare centres need an AI tool with assistants/agents linked to hospitals and doctors in order to control patient flow more easily through pre-questionnaires, follow-up check-ups and bookings.
Solution provided	Mindoo.ai is an app with multiple AI agents that handle mundane healthcare tasks: a pre-questionnaire confirmed by a professional, symptom summaries as a human assistant would produce, recovery monitoring and post-visit check-ins, and appointment booking. This enables an easier workflow — patients fill out issues in advance so they can be treated more rapidly, while doctors and nurses are freed from paperwork and reception for treatment and care. It does not aim to replace healthcare workers; the KCE, a Belgian healthcare centre, uses the tool to focus more on patient care. Mindoo.ai raised €5 million in December 2025 to accelerate

Item	Analysis
	deployment across Europe, with hospitals reporting faster and more complete patient intake.

Section 2 · Evaluation & Key Takeaways

Aspect	Synthesis
Why is this a "Best Practice"?	Mindoo.ai helps patients and healthcare workers by handling mundane tasks and lowering the time needed to process a patient, since a pre-questionnaire and summary are done beforehand for faster preparation. The AI was tested at AZ Sint-Lucas hospital in Ghent, Belgium, and received positive feedback from the hospital. New extensions are expected to ease the workload further. A demo can be booked with the creators on their site.
Identified Challenges	**Technical:** The app aims to expand its support toward diagnostics.
Transferability	With 57 languages already available on the app, it can readily be transferred to the countries where those languages are used.

Sources

- Le Spécialiste – Mindoo supports triage at AZ Sint-Lucas (25/10/2025): https://www.lespecialiste.be/fr/actualites/e-health/l-rsquo-assistant-ia-laquo-mindoo-raquo-soutient-la-triage-aux-urgences-de-l-rsquo-az-sint-lucas-a-gand.html
- Belga News Agency (24/10/2025): https://www.belganewsagency.eu/ai-assistant-mindoo-streamlines-triage-at-ghents-az-sint-lucas-hospital
- Mindoo – €5M raise (16/12/2025): https://mindoo.ai/news/mindoo-raises-eu5m-to-build-ai-agents-that-handle-intake-patient-access-and-follow-up-for-healthcare-teams
- LinkedIn post (16/06/2026): https://www.linkedin.com/feed/update/urn:li:activity:7472395744252100608/

Pixyle.ai — INNOVA LAB Bitola · North Macedonia

Section 1 · General Information

Field	Details
Fiche n.	3
Partner Organization	Center for Educational and Development Initiatives INNOVA LAB Bitola
Date of Research	28/06/2026
Country of Origin	North Macedonia
Website / Primary Source	https://www.pixyle.ai/
Secondary Source (desk research)	EBRD — "Pixyle Unlocks the Future of Fashion" (30/08/2023); Forbes — "How Pixyle AI Is Helping Shoppers Find Exactly What They Want" (08/12/2022).

If Best Practice refers to Category: Examples and Case Studies

Item	Analysis
Description	The fashion e-commerce industry faces significant challenges in helping customers quickly find products matching their visual preferences. Traditional text-based search often fails to identify visually similar clothing and accessories, making discovery less accurate and increasing customer frustration. Retailers also spend considerable time manually tagging and categorizing large catalogues, while inaccurate searches lower conversion rates and raise returns.
Challenge	Addressing these challenges requires AI capable of understanding and analysing the visual characteristics of fashion products. Computer Vision, Machine Learning and Visual Search are needed to automatically recognize clothing attributes, identify visually similar items, generate accurate product tags and deliver personalized recommendations for faster, more intuitive discovery.
Solution provided	Pixyle.ai has developed an AI-powered visual commerce platform that helps fashion retailers improve product discovery and customer engagement. Using Computer Vision and Machine Learning, it automatically analyses fashion images, recognizes attributes such as colour, pattern, shape and style, and generates accurate tags. It enables visual search, personalized recommendations and automated categorization, letting customers find visually similar items quickly. By reducing manual work and improving accuracy, it enhances the shopping experience, increases conversion and helps manage large catalogues. Pixyle.ai today collaborates with international fashion brands, demonstrating the scalability and commercial value of AI-driven visual search.

Section 2 · Evaluation & Key Takeaways

Aspect	Synthesis
Why is this a "Best Practice"?	Pixyle.ai demonstrates how AI can address real challenges in the fashion industry through practical, scalable innovation. Combining Computer Vision and Machine Learning, it improves product discovery, automates tagging and enhances the online experience for retailers and consumers. Its successful international deployment shows how AI-driven solutions can increase business efficiency while creating customer value, making it a strong example of innovative AI entrepreneurship.
Identified Challenges	**Technical:** Ensuring high accuracy in recognizing diverse fashion products across brands, styles, colours and image qualities while maintaining fast processing for large catalogues. **Ethical:** Reducing potential biases in visual recognition and recommendation systems by continuously improving model performance across diverse datasets. **Business:** Scaling across retailers with different product management systems, catalogue structures and e-commerce platforms.
Transferability	High. Pixyle.ai's visual search and product recognition can be readily adopted by fashion retailers of different sizes across international markets. The same Computer Vision and Machine Learning approach can be adapted to other retail sectors — furniture, cosmetics, home décor and consumer

Aspect	Synthesis
	goods — where visual product discovery and accurate classification are essential.

Sources

- Pixyle.ai: https://www.pixyle.ai/
- EBRD (30/08/2023): https://www.ebrd.com/home/news-and-events/news/2023/pixyle-unlocks-the-future-of-fashion.html
- Forbes (08/12/2022): https://www.forbes.com/sites/davidprosser/2022/12/08/how-pixyle-ai-is-helping-shoppers-find-exactly-what-they-want/

Nākotnes darbs / Future Work — Visas Iespējas · Latvia

Section 1 · General Information

Field	Details
Fiche n.	4
Partner Organization	Visas Iespējas
Date of Research	19/06/2026
Country of Origin	Latvia
Website / Primary Source	https://www.nakotnesdarbs.lv/
Secondary Source (desk research)	Digital Skills and Jobs Platform — "AI tool 'Future Work' in Latvia"; World Economic Forum — "An AI-powered coach in Latvia helps students find their dream careers".

If Best Practice refers to Category: Examples and Case Studies

Item	Analysis
Description	The case addresses a concrete challenge in Latvian career education: young people often make study and career decisions without a clear view of real labour-market demand, salaries, required skills or future opportunities. The World Economic Forum notes that only 40% of Latvian students felt confident making career decisions before the platform launched. For schools and counsellors, guidance must be personalised, understandable and connected to current labour-market evidence rather than outdated assumptions.
Challenge	The solution requires a combination of AI, labour-market analytics and career-guidance methodology. Nākotnes darbs uses a 60-question Holland/RIASEC-based personality test, real Latvian labour-market data, salary and vacancy information, occupational/skills classifications such as ESCO, and AI analysis comparing a user's interests, skills and work-environment preferences with possible professions. The technical challenge is to turn fragmented job advertisements and career data into trustworthy, youth-friendly recommendations while keeping the tool simple for schools, parents and counsellors.
Solution provided	Nākotnes darbs is a web-based AI career assistant developed within the World Economic Forum's Latvian Education Accelerator to modernise career education in secondary schools. Students can complete a personality test or

Item	Analysis
	browse professions independently; the platform then suggests suitable professions and provides labour-market information such as demand, salary, required skills, regional opportunities and popular employers. It covers more than 450 professions and 4,000 active employers, is free for school students, and supports counsellors, teachers and parents — turning career guidance from a static information activity into a data-driven, personalised decision-support process.

Section 2 · Evaluation & Key Takeaways

Aspect	Synthesis
Why is this a "Best Practice"?	Nākotnes darbs applies AI to a clear social and educational need: helping young people connect their interests with real labour-market opportunities. It combines a recognised career-interest methodology, real-time Latvian labour-market data and personalised recommendations, making career education more evidence-based and accessible without replacing human guidance. It also shows responsible design for young users: students need no account, no personal data is collected or stored for anonymous school users, and test answers are processed only to calculate the Holland code.
Identified Challenges	**Technical:** Keeping job-advertisement data, salaries and profession profiles accurate and current; mapping changing occupations and skills to understandable categories; keeping AI recommendations explainable. **Ethical:** Avoiding deterministic or stereotypical guidance, since recommendations influence young people's choices; making clear the tool supports reflection, not final decisions. **Privacy & child protection:** Serving secondary-school students demands strong safeguards around minors' data and third-party providers. **Inclusion:** Ensuring accessibility across different digital skills and regional backgrounds.
Transferability	High. The model can be adapted by other regions by combining local labour-market data, national-language content, ESCO or another classification, and a recognised career-interest methodology. It is relevant for schools, universities, employment services, youth organisations and social enterprises.

Sources

- Nākotnes darbs: https://www.nakotnesdarbs.lv/
- Digital Skills and Jobs Platform: https://digital-skills-jobs.europa.eu/en/latest/news/ai-tool-future-work-latvia-supporting-exploring-future-career-path
- World Economic Forum: https://www.weforum.org/videos/ai-powered-coach-latvia/

Pixies — t2i · Italy

Section 1 · General Information

Field	Details
Fiche n.	5
Partner Organization	t2i
Date of Research	25/06/2026
Country of Origin	Italy
Website / Primary Source	https://www.pixiesurbanlab.com/
Secondary Source (desk research)	InfraJournal — "Littering? It's up to Pixies, the robot that cleans smart cities".

If Best Practice refers to Category: Examples and Case Studies

Item	Analysis
Description	The startup addresses the problem of abandoned waste in urban areas, a phenomenon known as littering. The goal is to make the waste-collection process more efficient in terms of sustainability and circularity, improving the livability of both city environments and transit hubs.
Challenge	To solve the problem it is necessary to integrate AI technologies into autonomous mobile robots, enabling them to independently recognize the different categories of waste present in the area.
Solution provided	Pixies has developed a system consisting of a solar-powered smart bench combined with autonomous mobile robots. The robots clean the area autonomously and can identify and collect waste separately to promote recycling. The system offers continuous cleaning (up to 16 hours a day), is energy-efficient, and the robots are made from recycled plastic via 3D printing. The technology was tested for five months within the Aeroporti di Roma Innovation Hub (Fiumicino) and is currently used by large corporate groups and Italian municipalities.

Section 2 · Evaluation & Key Takeaways

Aspect	Synthesis
Why is this a "Best Practice"?	Pixies combines a solar-powered smart bench with autonomous robots to tackle littering. It offers a low-energy, continuous 16-hour cleaning service, uses 3D-printed recycled plastic for its hardware, and automatically separates waste to promote recycling, creating a highly efficient sustainability model tested with major hubs and municipalities.
Identified Challenges	**Technical:** Enabling autonomous mobile robots to successfully identify and collect different categories of waste separately within the space. **Regulatory:** Managing the deployment and operation of autonomous mobile robots within public urban areas and transit terminals.
Transferability	Highly transferable. Combining smart furniture with autonomous mobile sorting robots can be readily applied to any high-traffic sector or region

Co-funded by the European Union

Aspect	Synthesis
	globally, including university campuses, corporate headquarters, public parks and transit hubs.

Sources

- Pixies Urban Lab: https://www.pixiesurbanlab.com/
- InfraJournal: https://www.infrajournal.com/en/w/pixies-robot-recycling-waste-littering

CATEGORY 3

Problem-Solving Tips

Advice on overcoming common challenges in developing and managing AI-driven businesses, promoting innovation and adaptability.

Rayscape (formerly XVision) — Asociatia Edutex · Romania

Section 1 · General Information

Field	Details
Fiche n.	1
Partner Organization	Asociatia Edutex
Date of Research	03/06/2026
Country of Origin	Romania
Website / Primary Source	https://rayscape.ai
Secondary Source (desk research)	Signalbase Funding Report ("Rayscape Secures $2 Million to Revolutionize AI-Enhanced Radiology Diagnostics").

If Best Practice refers to Category: Problem-Solving Tips

Item	Analysis
Problem Statement	The global healthcare system faces a severe shortage of radiologists. The volume of medical imaging (X-rays, CT scans) is increasing rapidly, leading to extreme physician burnout, long reading times, and a higher risk of fatal diagnostic errors for patients.
Type of AI Technology / Solution provided	Deep Learning and Computer Vision. Rayscape developed a digital AI assistant that integrates directly into a hospital's existing radiology workflow. The AI rapidly processes and interprets complex imaging data (chest X-rays and lung CT scans), automatically detecting and tracking anomalies such as lung nodules. It triages scans, highlighting urgent cases and providing probability-based disease analysis so the radiologist can focus limited time on the most critical patients.

Section 2 · Evaluation & Key Takeaways

Aspect	Synthesis
Why is this a "Best Practice"?	Rayscape illustrates how to apply AI in a high-stakes medical environment. It provides a blueprint for building AI that acts as a "co-pilot" to augment human professionals rather than replace them, all while successfully securing multi-million-dollar funding to scale into the US market.
Identified Challenges	**Technical/Data:** Training computer vision models on highly diverse, anonymized medical datasets so the algorithm can recognise rare pathologies without structural bias. **Adoption:** Overcoming the medical community's natural scepticism toward AI by designing a tool that integrates seamlessly into existing software (PACS systems) rather than forcing doctors to learn a new platform.

Aspect	Synthesis
Transferability	The methodologies used to train accurate computer vision models and ensure medical-grade data privacy can be transferred to other diagnostic fields such as dermatology, pathology or ophthalmology.

Sources

- Techcelerator – €1M funding round: https://techcelerator.co/xvision-gets-e-1-million-in-a-new-round-of-funding-in-2022-it-consolidates-its-presence-in-western-europe-and-aims-for-the-usa/
- Trending Topics – €1M funding: https://www.trendingtopics.eu/romanian-medtech-startup-xvision-secures-e1m-in-a-new-funding-round/
- Romania Insider – expansion interview: https://www.romania-insider.com/xvision-expansion-interview-feb-2022

Nalantis — BRGD · Belgium

Section 1 · General Information

Field	Details
Fiche n.	2
Partner Organization	BRGD
Date of Research	18/06/2026
Country of Origin	Belgium
Website / Primary Source	https://www.nalantis.be
Secondary Source (desk research)	Nalantis's other website pages.

If Best Practice refers to Category: Problem-Solving Tips

Item	Analysis
Problem Statement	Belgium has faced administrative issues for years because it is split into three regions, and because legislation at European, national or local level is sometimes hard to interpret. Not all documents are digitally available, and finding information does not guarantee completeness. AI can detect patterns and help via prompts, but — like search engines — it often lacks the context and reflection needed to answer accurately. The "black box" nature of AI systems also makes it difficult for organisations to trust AI decisions, especially in HR and sensitive domains.
Type of AI Technology / Solution provided	Nalantis provides a hybrid technology combining semantics, linguistics, machine learning and deep learning to analyse documents more precisely and comprehend context, written or spoken. Its patented methods do not just match words but understand the undertone of a question to deliver precision, combined with cross-lingual understanding that uses documents in other languages without losing context. SEMGEM, for example, is an AI built to unify EU documents for more efficient search through Natural Language Understanding with Large Language Models.

Section 2 · Evaluation & Key Takeaways

Aspect	Synthesis
Why is this a "Best Practice"?	Nalantis helps enterprises adopt a more transparent, trustworthy type of AI that removes the black-box problem and provides accountability for biases. Its TAP platform enables human oversight since all information is transparent; being multilingual, both TAP and SEMGEM localise information while preserving linguistic context to stay true to the source. Traceability makes sources easy to find and verify. TAP's language processing and machine learning also support more efficient hiring, grading a CV against a job offer or redirecting it elsewhere, saving time for HR professionals through an end-to-end tracking system. The aim is to let organisations of any size simplify tasks that traditionally require heavy human oversight and redirect that time toward more demanding work.
Identified Challenges	**Ethical:** As a research AI that pushes beyond current models, Nalantis may consume more energy per query.
Transferability	With domain-specific prompts built in, the model has proven itself in the public sector in Flanders and in the Netherlands. Academic organisations trust Nalantis, as do platforms such as Google, Facebook and TensorFlow, which supports transferability from one country to another.

Sources

- Developer API (client feedback): https://www.nalantis.be/en/developer-api
- SEMGEM engine page: https://www.nalantis.be/en/semgem-usecase
- Blog page: https://www.nalantis.be/en/nalantis-blog
- Talent Management Solution: https://www.nalantis.be/en/enterprise-platform

AI NOW MK — INNOVA LAB Bitola · North Macedonia

Section 1 · General Information

Field	Details
Fiche n.	3
Partner Organization	Center for Educational and Development Initiatives INNOVA LAB Bitola
Date of Research	28/06/2026
Country of Origin	North Macedonia
Website / Primary Source	https://www.ainow.mk/
Secondary Source (desk research)	AI NOW Institute North Macedonia — About AI NOW MK.

If Best Practice refers to Category: Problem-Solving Tips

Item	Analysis
Problem Statement	The rapid adoption of AI has created growing demand for trustworthy, ethical and locally relevant AI solutions. In North Macedonia, businesses, public institutions, educators and citizens face challenges of limited AI literacy, insufficient understanding of ethical AI practices, and the lack of AI tools adapted to the Macedonian language and local context. These barriers hinder responsible adoption and limit opportunities for innovation and digital transformation.
Type of AI Technology / Solution provided	AI NOW MK applies Natural Language Processing (NLP), Large Language Models (LLMs) and responsible-AI principles to support AI development and adoption in North Macedonia. It develops Macedonian-language AI resources, promotes ethical AI through research, educational programmes, workshops and policy dialogue, and provides practical guidance for businesses, educators, entrepreneurs and public institutions. By combining advanced AI with capacity-building, it supports responsible, transparent and inclusive AI adoption across sectors.

Section 2 · Evaluation & Key Takeaways

Aspect	Synthesis
Why is this a "Best Practice"?	AI NOW MK promotes responsible AI adoption through a combination of technological innovation, education and ethical governance. By supporting Macedonian-language AI resources, advancing AI literacy and encouraging transparent, inclusive practices, it helps create a trusted ecosystem for AI innovation. It shows how collaboration between researchers, educators, businesses and public institutions can foster responsible adoption while strengthening local digital capacities.
Identified Challenges	**Technical:** Continuously developing and improving Macedonian-language AI models and datasets while keeping pace with rapid advances. **Educational:** Increasing AI literacy and responsible-AI awareness among businesses, educators, institutions and the wider community. **Regulatory:** Aligning initiatives and guidance with the evolving European AI Act and other ethical and regulatory frameworks.
Transferability	High. AI NOW MK's approach to ethical AI, AI literacy and local-language resources can be adapted by other countries seeking to strengthen responsible adoption. The combination of research, education, community engagement and support for innovation provides a transferable model for universities, innovation hubs, public institutions and entrepreneurship ecosystems.

Sources

- AI NOW MK: https://www.ainow.mk/
- About AI NOW MK: https://www.ainow.mk/about

Latvia National AI Program in Schools — Visas Iespējas · Latvia

Section 1 · General Information

Field	Details
Fiche n.	4
Partner Organization	Visas Iespējas
Date of Research	19/06/2026
Country of Origin	Latvia
Website / Primary Source	https://www.izm.gov.lv/en/article/latvia-launches-national-artificial-intelligence-program-schools
Secondary Source (desk research)	Digital Skills and Jobs Platform; European Commission — Guidelines on the ethical use of AI and data in teaching and learning.

If Best Practice refers to Category: Problem-Solving Tips

Item	Analysis
Problem Statement	Schools, teachers and young people are already exposed to AI tools, but adoption can easily become fragmented, unsafe or superficial if left to individual initiative. The challenge is not only giving students access to AI, but helping the whole education system use it responsibly: with clear learning goals, teacher confidence, school leadership, data protection, critical thinking and safeguards against disinformation. Latvia's national programme frames this as an implementation problem, aiming to make students, teachers and school leaders skilled and responsible AI users by 2030 while ensuring AI supports pedagogy rather than replacing teachers.
Type of AI Technology / Solution provided	This is not a single AI product but a national implementation model for responsible AI adoption in education. It combines: a national-level AI expert community; an AI Leader School network (15 general and 5 vocational institutions); training and experience-exchange activities; teaching and methodological materials, guidelines and a resource library; revision of national curricula; and five priority pillars — AI literacy, AI as a pedagogy-support tool, digital leadership, safe and ethical AI use, and sovereign Latvian AI infrastructure. The AI technologies involved may include generative AI, learning-support assistants, language technologies and content-creation tools, but the main solution is the governance, training and safe-use framework around them.

Section 2 · Evaluation & Key Takeaways

Aspect	Synthesis
Why is this a "Best Practice"?	It offers practical problem-solving guidance for a common AI entrepreneurship and education challenge: how to introduce AI without creating unmanaged risks. Latvia's approach does not treat AI as a quick tool rollout — it combines policy, teacher professional development, school leadership, ethical safeguards, local-language infrastructure and shared examples. It shows young entrepreneurs and educators that successful implementation should start from real user needs and learning goals, not technology alone, and demonstrates steps for responsible innovation: pilot with motivated institutions, involve experts, create guidelines, build a

Aspect	Synthesis
	resource library, protect data, address disinformation, and scale only after local feedback.
Identified Challenges	**Technical:** Selecting age-appropriate, reliable AI tools; keeping resources current; building and maintaining Latvian-language AI infrastructure; evaluating AI-generated output quality. **Regulatory & ethical:** Protecting minors' data; complying with GDPR and future AI Act requirements; reducing bias and misinformation; preventing over-reliance and ensuring human oversight. **Operational:** Teacher workload and confidence; differences in digital capacity between schools; risk of unequal urban/rural adoption; dependence on external tools or funding.
Transferability	High. The model can be adapted by other countries, municipalities, youth organisations and entrepreneurship programmes. The transferable method: create an expert group, select pilot/leader institutions, train educators and mentors, prepare clear ethical-use guidelines, collect local best-practice examples, integrate AI literacy into learning, and review continuously.

Sources

- Ministry of Education and Science of Latvia: https://www.izm.gov.lv/en/article/latvia-launches-national-artificial-intelligence-program-schools
- Digital Skills and Jobs Platform: https://digital-skills-jobs.europa.eu/en/latest/news/latvia-launches-national-artificial-intelligence-program-schools
- European Commission — ethical guidelines for educators: https://education.ec.europa.eu/focus-topics/digital-education/actions/plan/ethical-guidelines-for-educators-on-using-artificial-intelligence

Rethic.AI — t2i · Italy

Section 1 · General Information

Field	Details
Fiche n.	5
Partner Organization	t2i
Date of Research	25/06/2026
Country of Origin	Italy
Website / Primary Source	https://rethic.ai/
Secondary Source (desk research)	S2E (Solutions2Enterprises) — "Introducing Rethic.AI: Italy's First Business Network for Ethical AI Adoption".

If Best Practice refers to Category: Problem-Solving Tips

Item	Analysis
Problem Statement	Underestimation of hidden costs and the ethical impacts of AI. The rapid adoption of AI has led many companies to underestimate the ethical impacts and hidden costs of emerging technologies. Organizations face complex ethical and regulatory challenges, creating a need for solutions that

Item	Analysis
	ensure transparency, compliance and sustainability without penalizing human capital.
Type of AI Technology / Solution provided	Conversational agent for risk assessment (AI Act). The network makes the "AI Act Risk Navigator" tool available on its website — a conversational agent (chatbot) that companies can interact with directly to obtain a preliminary assessment of the risk level of their AI solutions, verifying their compliance with the requirements set by the European AI Act.

Section 2 · Evaluation & Key Takeaways

Aspect	Synthesis
Why is this a "Best Practice"?	Rethic.AI addresses the hidden ethical costs and cognitive impacts of AI. By countering concerning models with a strictly human-centric approach ("AI that works with you, not on you") and providing an interactive chatbot (AI Act Risk Navigator), it offers a practical path for organizations to ensure transparency and compliance.
Identified Challenges	**Regulatory:** Navigating complex compliance requirements and helping companies verify their AI solutions against the specific criteria of the European AI Act. **Ethical:** Countering concerning AI models and addressing the hidden ethical impacts and cognitive effects of emerging technologies without penalizing human capital. **Technical:** Designing an effective conversational agent capable of providing direct, accurate preliminary risk assessments.
Transferability	Highly transferable. Providing automated risk-navigation tools and ensuring ethical compliance is completely sector-agnostic and can be applied to any industry deploying AI solutions, as well as any region adapting to modern AI regulations.

Sources

- Rethic.AI: https://rethic.ai/
- S2E — Introducing Rethic.AI: https://solutions2enterprises.com/en/introducing-rethic-ai-italys-first-business-network-for-ethical-ai-adoption/