



care, judgment, dexterity

CRAEFT

Risk Assessment

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Authors	Nikolaos Partarakis and Xenophon Zabulis



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<http://www.craeft.eu/>

Executive summary

This deliverable provides an updated risk assessment for the Craeft project at M24, reflecting significant progress and evolving project conditions. The Craeft project aims to deepen the understanding and preservation of traditional crafting activities through advanced digital technologies, interdisciplinary research, and stakeholder engagement.

Key highlights from this deliverable include:

Section 1: An overview of the project's background and the importance of risk assessment in ensuring successful execution. The need to continuously reassess risks as the project matures is emphasized, highlighting the dynamic nature of the risk landscape.

Section 2: Updates to the risk assessment methodology, incorporating continuous evaluation, enhanced stakeholder engagement, and data-driven decision-making. The methodology now features adaptive mitigation strategies and robust monitoring processes.

Section 3: A comprehensive reassessment of project risks, taking into account the progress achieved at M24. This includes updated likelihood and impact evaluations and identification of new risk factors.

Section 4: Comparative analysis between the initial and current risk assessments, showcasing reduced risk levels for technical complexities and data availability while identifying emerging risks related to market dynamics and technological integration.

Section 5: Revised mitigation strategies that reflect lessons learned and best practices. Key updates include enhanced technical testing, stronger stakeholder involvement, and improved resource management.

Section 6: Enhanced monitoring and review processes, including bi-monthly risk reviews, real-time dashboard tracking, and scenario analyses. These processes have significantly contributed to the project's adaptability and resilience.

Section 7: Conclusion and recommendations, highlighting the effectiveness of dynamic risk management and the importance of stakeholder collaboration. Recommendations for future work include sustaining continuous monitoring, enhancing technological integration, and fostering stronger partnerships.

The deliverable demonstrates that the Craeft project has successfully navigated numerous challenges, emerging stronger and more resilient at M24. By maintaining a proactive and adaptive approach to risk management, the project is well-positioned to achieve its objectives and deliver lasting impacts in craft preservation, education, and technological innovation.

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Abbreviations

AI	Artificial Intelligence
AR	Augmented Reality
CAP	Craeft Authoring Platform
CIDOC-CRM	CIDOC-Conceptual Reference Model
DMP	Data Management Plan
EDM	European Data Model
FAQ	Frequently Asked Question
GDPR	General Data Protection Regulation
HTTPS	Hypertext Transfer Protocol Secure
IPR	Intellectual Property Rights
MoCap	Motion Capture
UCD	User Centred Design
VR	Virtual Reality
WP	Work Package

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1 Introduction

1.1 Background Information on Craeft

The Craeft project aims to deepen our understanding of various crafting activities, encompassing care, judgment, and dexterity. It draws upon disciplines such as Anthropology, Knowledge Representation, Cognitive Science, Art History, Advanced Digitisation, Audiovisual & Haptic Immersivity, and Computational Intelligence. The project explores crafts as living and developing heritage, sustainable sources of income, and a means of expressing accumulated knowledge through technology and imagery.

Given the project's interdisciplinary nature and reliance on advanced digital technologies, risk assessment has been a pivotal component throughout its lifecycle. At M24, with significant progress achieved, it is crucial to reassess and update the initial risk management strategies to align with the project's current trajectory and emerging challenges.

1.2 Purpose and Scope of the Risk Assessment

The purpose of this risk assessment deliverable is to systematically identify, evaluate, and mitigate potential risks that could impact the Craeft project. This updated version reflects changes in the project's status, lessons learned, and the evolving risk landscape at M24.

Key objectives include: (a) Evaluating the effectiveness of initial risk mitigation strategies, (b) Identifying new and emerging risks, (c) Proposing adaptive mitigation strategies to ensure the project's continued success.

1.3 Importance for Craeft

Risk assessment is essential for a project like Craeft due to its complexity and reliance on cutting-edge technologies. It enables the project consortium to proactively address challenges, minimize potential disruptions, and optimize resource allocation. By regularly updating the risk assessment, the Craeft project ensures resilience and adaptability, thereby increasing the likelihood of achieving its objectives and delivering lasting impacts.

2 Updated Methodology for Risk Assessment at M24

Risk assessment is a dynamic process that requires continuous evaluation and adaptation to ensure the successful execution of a project. At M24, the Craeft project has made significant progress, prompting a review and update of the initial risk assessment methodology. This section presents the refined methodology that aligns with the current needs and objectives of the project. The updated methodology at M24 reflects the project's evolution and the need for a more dynamic and responsive approach to risk assessment. By incorporating continuous evaluation, stakeholder engagement, and adaptive mitigation strategies, the Craeft project is well-positioned to proactively manage risks and maintain its positive trajectory.

2.1 Initial Methodological Framework

The initial methodology was designed to systematically identify, assess, and manage risks associated with the Craeft project. It involved the following key steps:

1. **Risk Identification:** Brainstorming sessions, stakeholder interviews, and reviews of project documentation were conducted to identify potential risks.
2. **Risk Evaluation:** Likelihood and impact assessments were carried out using a qualitative scoring system.
3. **Risk Prioritisation:** A risk matrix was used to prioritize risks based on their severity.
4. **Mitigation Strategies:** For each identified risk, mitigation measures were proposed.
5. **Monitoring and Review:** Regular assessments were planned to track the status of identified risks and identify emerging risks.

This initial framework provided a strong foundation for risk management during the project's early stages.

2.2 Evolution of the Risk Assessment Methodology

Since the initial assessment, several factors have necessitated adjustments to the methodology:

1. **Project Maturity:** With the project now in M24, many risks have been mitigated or redefined, requiring a more dynamic and responsive assessment process.
2. **Technological Advancements:** The adoption of advanced technologies has introduced new risk dimensions while mitigating previous technical concerns.
3. **Stakeholder Engagement:** Increased involvement from craft practitioners and educational partners has provided valuable insights into risk management.
4. **Data-Driven Insights:** Enhanced data collection and analysis have enabled more accurate and evidence-based risk evaluations.

2.3 Updated Methodological Steps

The updated risk assessment methodology now incorporates the following refined steps:

Step 1: Continuous Risk Identification

Risk identification is now an ongoing process, integrated into project activities and stakeholder interactions. Key activities include:

- Regular brainstorming sessions during project meetings.
- Periodic surveys and interviews with stakeholders.
- Monitoring project milestones for potential risk indicators.

Step 2: Dynamic Risk Evaluation

Risk evaluation has become more nuanced, considering both qualitative and quantitative factors. The assessment now includes:

- Use of historical project data to inform likelihood and impact evaluations.
- Weighted scoring to account for interdependencies between risks.

Step 3: Prioritisation Using a Dynamic Risk Matrix

A more flexible risk matrix is used, allowing for:

- Real-time updates based on changing project conditions.
- Filtering by risk categories (e.g., technical, operational, stakeholder-related).

Step 4: Adaptive Mitigation Strategies

Mitigation strategies are now designed to be adaptive and scalable. Key practices include:

- Developing contingency plans for high-priority risks.
- Implementing iterative solutions that can be refined based on project outcomes.
- Engaging stakeholders in co-creating mitigation measures.

Step 5: Enhanced Monitoring and Review

The monitoring process has been strengthened to include:

- Bi-monthly risk review meetings.
- Use of dashboards to track risk status and mitigation progress.
- Integration of stakeholder feedback into risk evaluations.

2.4 Stakeholder Contributions

Stakeholder involvement has been pivotal in refining the risk assessment methodology. Their contributions have included:

- Identifying emerging risks based on practical project experiences.
- Providing feedback on the effectiveness of mitigation strategies.
- Offering insights into evolving project needs and priorities.

3 Updated Risk Identification at M24

Risk identification serves as a critical foundation for effective project management. At M24, the Craeft project has evolved significantly, necessitating a reevaluation of the initial risks identified in the first version of the deliverable. This section presents a refined list of risks, taking into account the project's excellent progress and current status.

A dynamic approach to risk identification is essential to ensure that the project remains adaptable to emerging challenges and opportunities. By revisiting and updating risk categories, the Craeft team can align mitigation strategies more effectively and capitalize on advancements made so far.

The updated risk identification at M24 highlights a dynamic risk landscape shaped by the project's evolution. While many initial risks have been mitigated, new challenges and opportunities have emerged. Proactive and continuous risk management will be essential to maintain the project's positive trajectory and capitalize on emerging opportunities. By staying adaptive and responsive, the Craeft project can ensure its long-term success and sustainability.

3.1 Initial Risk Landscape

During the project's early stages, the initial risk identification highlighted potential challenges across multiple objectives. These risks were categorized based on their potential impact on technical, operational, and user engagement aspects. Key risks included:

- **Technical Risks:** Complexities in implementing digital solutions and simulation models. These risks were particularly critical for objectives related to the digital re-enactment of craft processes.
- **Data Risks:** Concerns about the availability and quality of data required to capture crafting actions and processes. Limited access to diverse datasets posed a significant threat.
- **User Engagement Risks:** Challenges in securing active participation from craft practitioners, educators, and other stakeholders.
- **Operational Risks:** Resource constraints and coordination issues that could impede project progress.

The identification of these risks was crucial for shaping the initial mitigation strategies and prioritising project activities.

3.2 Current Risk Landscape at M24

With the project's significant progress, several risks have been mitigated or diminished in importance, while new risks have emerged due to advancements and evolving project needs. Below is an updated identification of risks:

3.2.1 Understanding Crafting Actions and Processes (O1)

The first objective involves capturing and representing the intricate processes of traditional crafts. Initially, technical complexities and data interoperability posed significant challenges. However, the project has made substantial advancements in these areas. Despite these achievements, certain risks remain, particularly regarding continuous refinement and integration across platforms.

- **Residual Technical Complexity:** While technical challenges have reduced, ongoing updates and refinements still pose minor risks. Continuous improvements in simulation accuracy require careful monitoring.
- **Data Interoperability:** Although data availability has improved, ensuring seamless integration across platforms and tools remains a priority to avoid workflow disruptions.

3.2.2 Digital Re-enactment of Craft Actions and Processes (O2)

This objective focuses on creating digital re-enactments of craft processes using advanced technologies such as motion capture and haptic systems. The integration of these technologies has progressed well, though some compatibility and user experience challenges persist.

- **Technological Integration:** Continued integration of advanced technologies, such as motion capture and haptic feedback systems, may occasionally present compatibility challenges.
- **User Feedback Incorporation:** Ensuring iterative improvements based on user input remains a focus to enhance the accuracy and effectiveness of simulations.

3.2.3 Education (O3)

The educational aspect of the project aims to equip learners with knowledge and skills through updated digital tools and materials. While initial challenges in tool adoption and user engagement were prevalent, the project has successfully fostered positive outcomes.

- **Adoption of New Educational Tools:** Keeping educational materials updated to match evolving technologies is essential to maintain relevance.
- **Engagement in Educational Programs:** Sustaining strong user participation and motivation requires continuous innovation in educational content.

3.2.4 Training (O4)

This objective emphasizes providing immersive training experiences for craft practitioners. Despite progress in developing training solutions, usability and pedagogical effectiveness remain key areas of focus.

- **Immersive Training Usability:** Ensuring that users can effectively adopt VR and AR-based training solutions remains a key focus. Simplified interfaces and user support are critical.
- **Pedagogical Effectiveness:** Continually improving training materials and exercises to ensure skill transferability is essential for long-term success.

3.2.5 Design (O5)

The design objective involves creating tools and systems that support crafting activities. As the project progresses, maintaining tool compatibility and addressing user learning curves remain significant considerations.

- **Tool Integration Challenges:** Maintaining compatibility with evolving design software and hardware systems is essential to ensure uninterrupted workflows.
- **User Learning Curve:** Supporting designers in adopting new digital tools through comprehensive training and documentation remains important.

3.2.6 Preservation & Revival (O6)

This objective focuses on the preservation and revival of traditional crafts. Efforts to establish certification frameworks and integrate sustainable practices are ongoing but present continued challenges.

- **Certification Processes:** Continued development and refinement of standardized certification frameworks are required to ensure widespread recognition and adoption.
- **Sustainability Practices:** Integrating sustainable practices without compromising traditional techniques presents ongoing challenges.

3.2.7 Product Valorisation (O7)

This objective seeks to enhance the market value of craft products through strategic marketing and secure digital content. Market dynamics and content security remain key concerns.

- **Market Dynamics:** Adapting to evolving customer preferences while preserving craft authenticity is a delicate balance that requires strategic marketing.
- **Digital Content Security:** The need for robust security measures to protect intellectual property and ensure data integrity remains a priority.

3.3 New Opportunities and Positive Risk Factors

Due to the project's excellent progress, several positive risk factors have emerged:

- **Technological Advancements:** Enhanced capabilities in simulation, data processing, and immersive interfaces have opened new avenues for project expansion.
- **Increased Stakeholder Engagement:** Strong partnerships have led to improved resource sharing, user insights, and collaboration opportunities.
- **Scalability Opportunities:** The project has demonstrated the potential to extend its methodologies and solutions to additional craft domains and educational contexts.
- **Knowledge Dissemination:** The development of best practices and successful case studies offers valuable insights for future projects.
- **Enhanced User Adoption:** Positive feedback from stakeholders has highlighted increased acceptance of digital tools and methods.

4 Risk Analysis and monitoring at M24

The comparison between the initial and updated risk assessments highlights the project's resilience and adaptability. The successful management and mitigation of critical risks underscore the effectiveness of the adopted strategies. As the project continues, ongoing risk assessment and proactive management will remain essential to sustain its positive trajectory.

4.1 Initial Risk Assessment Summary

In the first version of the deliverable, a comprehensive assessment of potential risks was conducted. These risks were categorized based on their relevance to project objectives and evaluated for their likelihood and impact. The key risks identified included technical complexities, data availability and quality, compatibility and integration issues, stakeholder engagement, resource limitations, and user acceptance challenges.

A summary of the initial risk evaluation is presented below:

- **O1: Understanding Crafting Actions and Processes**
 - *Technical Complexity*: Moderate likelihood, High impact
 - *Data Availability and Quality*: Moderate likelihood, Moderate impact
 - *Compatibility and Integration*: Moderate likelihood, Moderate impact
- **O2: Digital Re-enactment of Craft Actions and Processes**
 - *Technical Complexity*: Moderate to High likelihood, High impact
 - *Data Availability and Accuracy*: Moderate likelihood, High impact
- **O3: Education**
 - *Adaptation to Evolving Technologies*: Moderate to High likelihood, High impact
 - *Quality and Relevance of Educational Materials*: Moderate likelihood, High impact
- **O4: Training**
 - *Technology Implementation and Usability*: Moderate likelihood, Moderate impact
 - *Realism and Immersion*: Moderate likelihood, High impact
- **O5: Design**
 - *Technical Complexity and Tool Integration*: Moderate likelihood, High impact
- **O6: Preservation & Revival**
 - *Certification and Skill Recognition*: Moderate likelihood, Moderate to High impact
- **O7: Product Valorisation**
 - *Risk of Digital Content Security*: Moderate likelihood, Moderate to High impact

These initial assessments guided the development of mitigation strategies aimed at reducing the likelihood and impact of identified risks.

4.2 Progress and Changes at M24

As of M24, the project has progressed excellently and as expected, demonstrating significant achievements across all objectives. Several risks initially deemed critical have either been mitigated or proven less impactful due to effective management and technological advancements. Key progress highlights include:

- **Technological Advancements:** Successful development and integration of simulation and digital re-enactment technologies.
- **Data Quality Improvements:** Establishment of robust data collection protocols and close collaboration with craft communities, enhancing data availability and accuracy.
- **Educational and Training Success:** Adoption of digital tools in educational settings with positive user feedback.
- **Stakeholder Engagement:** Strong partnerships and active participation from craft practitioners and educational institutions.
- **Resource Allocation:** Effective management of resources, minimising constraints.

4.3 Updated Risk Assessment

The table below contrasts the initial risk assessment with the current evaluation at M24:

Risk	Initial Likelihood	Initial Impact	Current Likelihood	Current Impact	Notes
O1: Technical Complexity	Moderate	High	Low	Moderate	Successful technical development and expertise have reduced this risk.
O1: Data Availability & Quality	Moderate	Moderate	Low	Low	Data protocols and community collaborations proved effective.
O2: Technical Complexity	Moderate to High	High	Moderate	Moderate	Continuous testing and refinement have managed this risk.
O3: Adaptation to Evolving Technologies	Moderate to High	High	Moderate	Moderate	Flexibility in adopting new tools mitigated the risk.

O4: Realism and Immersion	Moderate	High	Low	Moderate	Improved hardware and user-centered design reduced this risk.
O6: Certification and Skill Recognition	Moderate	Moderate to High	Moderate	Moderate	Ongoing efforts to establish certification systems are progressing.
O7: Digital Content Security	Moderate	Moderate to High	Moderate	Moderate	Security measures have stabilized this risk.

4.4 Lessons Learned and Mitigation Updates

This section provides insights into key lessons learned from risk mitigation efforts and updates on the strategies employed throughout the project. By reflecting on these experiences, the Craeft project can better inform future activities and further enhance its ability to navigate potential challenges.

Technical Expertise: Investing early in technical training and assembling a multidisciplinary team contributed significantly to reducing technical complexities.

- Continuous technical refinement ensured the seamless integration of advanced technologies.
- Cross-disciplinary collaboration fostered innovation and problem-solving.

Data Collection Strategies: Establishing standardized data collection protocols was instrumental in ensuring consistent and high-quality data availability.

- Robust data validation mechanisms reduced the risk of errors.
- Collaborations with craft communities improved data diversity and representation.

Stakeholder Engagement: Frequent communication and collaboration with craft practitioners and educational partners ensured active participation and buy-in.

- Co-design sessions with stakeholders helped align project outcomes with user needs.
- Stakeholder-driven feedback loops enhanced solution effectiveness.

Resource Management: Strategic resource allocation and securing additional funding opportunities minimized resource-related risks.

- Prioritisation of high-impact activities ensured efficient resource utilisation.
- Diversification of funding sources provided financial stability.

Continuous Evaluation: Regular assessment and iteration of project components allowed for timely adjustments and improvements.

- Bi-monthly review meetings fostered proactive risk identification.
- Real-time dashboards provided actionable insights for decision-making.

5 Risk Mitigation Strategies

5.1 Introduction

Effective risk mitigation strategies are essential to ensure the successful execution of the Craeft project. At M24, the project's progress has highlighted the effectiveness of some initial strategies while revealing areas where new or adjusted approaches are required. This section outlines the updated mitigation strategies based on lessons learned and the current risk landscape.

5.2 Initial Mitigation Strategy Review

The initial risk mitigation strategies focused on:

- Addressing technical complexities through the formation of a multidisciplinary team.
- Ensuring data availability and quality through standardized collection protocols.
- Engaging stakeholders to foster collaboration and active participation.
- Managing resource limitations by prioritising key activities and seeking additional funding.

These strategies proved effective in mitigating many of the initially identified risks.

5.3 Updated Mitigation Strategies

This section outlines the refined mitigation strategies developed based on the lessons learned and evolving project requirements. These strategies aim to address new challenges while enhancing the effectiveness of previous measures.

5.3.1 Technical Risk Mitigation

The Craeft project has made significant progress in minimising technical risks. However, continuous efforts are required to maintain system stability and technological relevance.

- **Enhanced Testing and Iteration:** Continuous testing and iterative development cycles to address technical complexities and improve system stability.
- **Technology Monitoring:** Regular evaluation of emerging technologies to ensure compatibility and maintain project relevance.
- **Technical Training:** Ongoing training for project team members to maintain technical expertise.

5.3.2 Data Risk Mitigation

Data quality and availability are crucial for the success of the project. Efforts to ensure data integrity and accessibility have been enhanced.

- **Data Quality Assurance:** Implementation of automated data validation processes to ensure accuracy and consistency.
- **Data Collaboration:** Strengthened partnerships with craft communities to enhance data availability and diversity.
- **Data Protection and Privacy:** Implementation of data minimisation techniques, informed consent procedures, and appropriate technical and organisational measures to ensure a level of security appropriate to the risk.

5.3.3 Stakeholder Engagement Mitigation

Maintaining strong stakeholder relationships is essential for the project's continued success.

- **Tailored Communication Strategies:** Customized communication plans to maintain stakeholder interest and involvement.
- **Co-Design Workshops:** Involving stakeholders in the development of project components to ensure alignment with their needs.
- **Feedback Integration:** Regular collection and integration of stakeholder feedback to inform project improvements.

5.3.4 Resource Management Mitigation

Effective resource management remains critical to ensure the smooth execution of project activities.

- **Optimized Resource Allocation:** Prioritisation of high-impact activities to maximize resource utilisation.
- **Funding Diversification:** Exploration of additional funding opportunities to support project activities.

5.3.5 Educational and Training Mitigation

Adapting educational and training content to evolving technological requirements is vital for long-term success.

- **Adaptive Learning Materials:** Continuous updates to educational content to reflect technological advancements.
- **Inclusive Training Programs:** Development of training materials that cater to diverse learning needs and skill levels.

5.3.6 Lessons Learned

Several key insights have emerged from the implementation of mitigation strategies, guiding future risk management efforts.

- **Stakeholder Collaboration:** Early and continuous engagement with stakeholders fosters trust and enhances project outcomes.



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- **Flexible Mitigation Strategies:** Adaptive approaches are essential to respond to evolving risks and project needs.
- **Data-Driven Decision Making:** Leveraging data insights improves the accuracy and effectiveness of risk mitigation efforts.

6 Risk Monitoring and Review

Effective risk monitoring and review are critical for maintaining project stability and ensuring timely responses to emerging challenges. At M24, the Craeft project has implemented enhanced monitoring processes to track risk status and assess the effectiveness of mitigation strategies. The enhanced risk monitoring and review processes at M24 have significantly contributed to the Craeft project's resilience and adaptability. By maintaining a proactive approach to risk management, the project is well-equipped to navigate future challenges and sustain its positive trajectory.

6.1 Risk Monitoring Process

The updated risk monitoring process includes:

- **Regular Risk Review Meetings:** Bi-monthly meetings to evaluate the status of identified risks and discuss new concerns.
- **Dashboard Tracking:** A real-time dashboard to monitor risk status, likelihood, and impact.
- **Stakeholder Feedback Integration:** Continuous engagement with stakeholders to gather insights and identify potential risks.
- **Data Analytics:** Use of data-driven insights to inform risk assessments and decision-making.

6.2 Review Mechanisms

The review mechanisms at M24 focus on:

- **Effectiveness Assessment:** Evaluating the success of implemented mitigation strategies.
- **Continuous Improvement:** Refining risk management practices based on lessons learned and evolving project needs.
- **Scenario Analysis:** Conducting simulations to assess the potential impact of new risks and develop contingency plans.

6.3 Key Findings from the Review

- **Mitigation Successes:** Many initial risks have been effectively managed, leading to enhanced project stability.
- **Emerging Risks:** New risks related to market dynamics and technological integration have been identified.
- **Stakeholder Contributions:** Active engagement has provided valuable insights and improved risk mitigation strategies.

7 Conclusion

The Craeft project has made remarkable progress by M24, successfully navigating various challenges and emerging as a robust and adaptive initiative. Throughout the project's lifecycle, the importance of a dynamic and comprehensive risk management approach has been reinforced. By proactively identifying, evaluating, and mitigating risks, the project has maintained its trajectory toward achieving its objectives.

One of the most significant insights gained is the importance of continuous stakeholder engagement. Collaborative efforts with craft practitioners, educators, and technological experts have not only enriched the project's outcomes but have also fostered a sense of shared ownership and commitment. This inclusive approach has been instrumental in identifying emerging challenges and co-developing effective solutions.

Technological advancements have played a crucial role in mitigating risks related to data collection, simulation, and educational tools. However, these advancements have also introduced new challenges that require ongoing attention. The project has demonstrated resilience by adopting adaptive mitigation strategies and maintaining a forward-looking approach to technological integration.

The lessons learned during the project's implementation highlight the need for flexibility in risk management strategies. The ability to pivot and adjust in response to evolving circumstances has proven essential for sustaining project momentum and achieving positive outcomes. Additionally, the emphasis on data-driven decision-making has enhanced the accuracy and effectiveness of risk evaluations.

Looking ahead, it is essential to sustain the project's proactive risk management approach. Continuous monitoring, stakeholder engagement, and technological evaluation will be critical for navigating future challenges and capitalising on emerging opportunities. By maintaining this adaptive and collaborative mindset, the Craeft project is well-positioned to achieve its long-term objectives and make a lasting impact on the preservation, education, and valorisation of traditional crafts.

In conclusion, the Craeft project stands as a testament to the power of innovation, collaboration, and adaptability. As it moves forward, the insights gained and strategies developed will serve as valuable foundations for future endeavours in the intersection of technology, education, and cultural heritage preservation.