



# DEL RESEARCH AGENDA FINAL VERSION



[WWW.DEL4ALL.EU](http://WWW.DEL4ALL.EU)

# The COVID-19 pandemic caused unprecedented global disruptions.

- It made **public-facing activities impossible** throughout the project lifecycle,
- pedagogical approaches **failed at forcing** 'in-person' **pedagogies to online.**

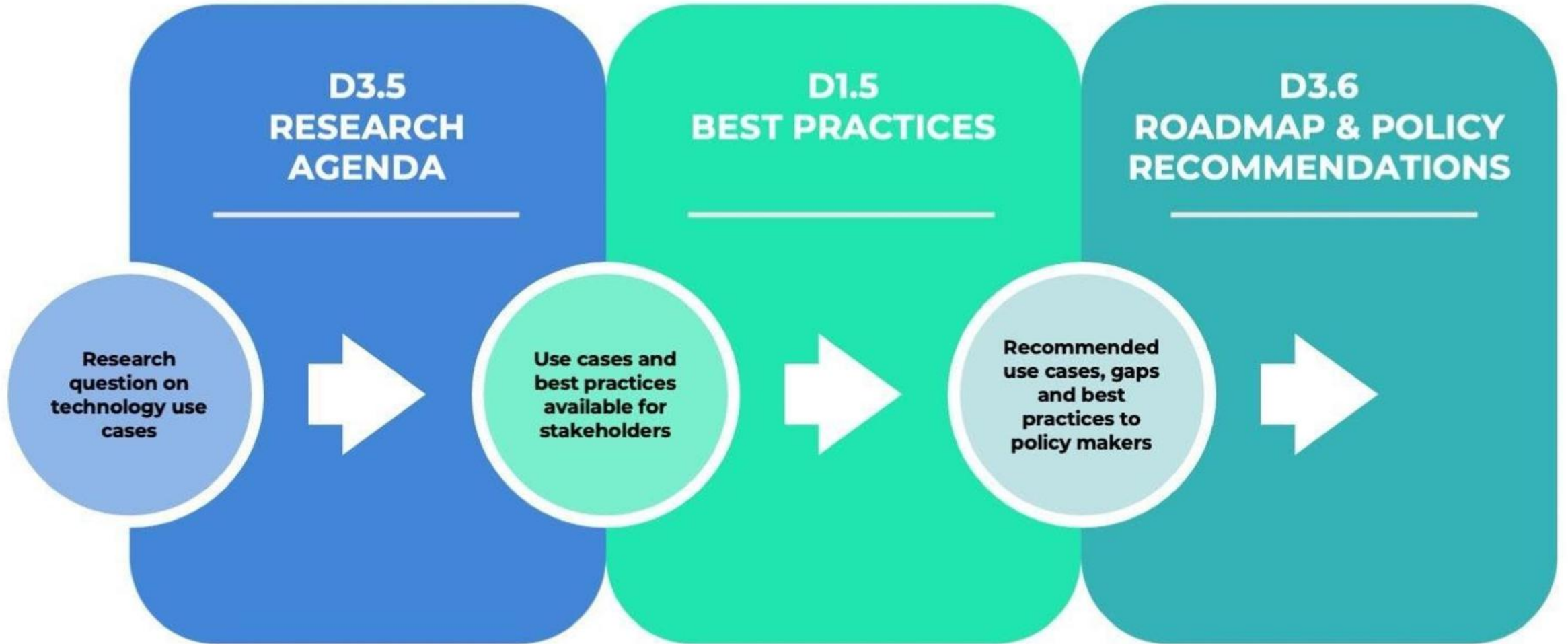
As a response, **we looked at** a wider set of **technologies**; and **focused on** understanding the **teaching models and pedagogies.**

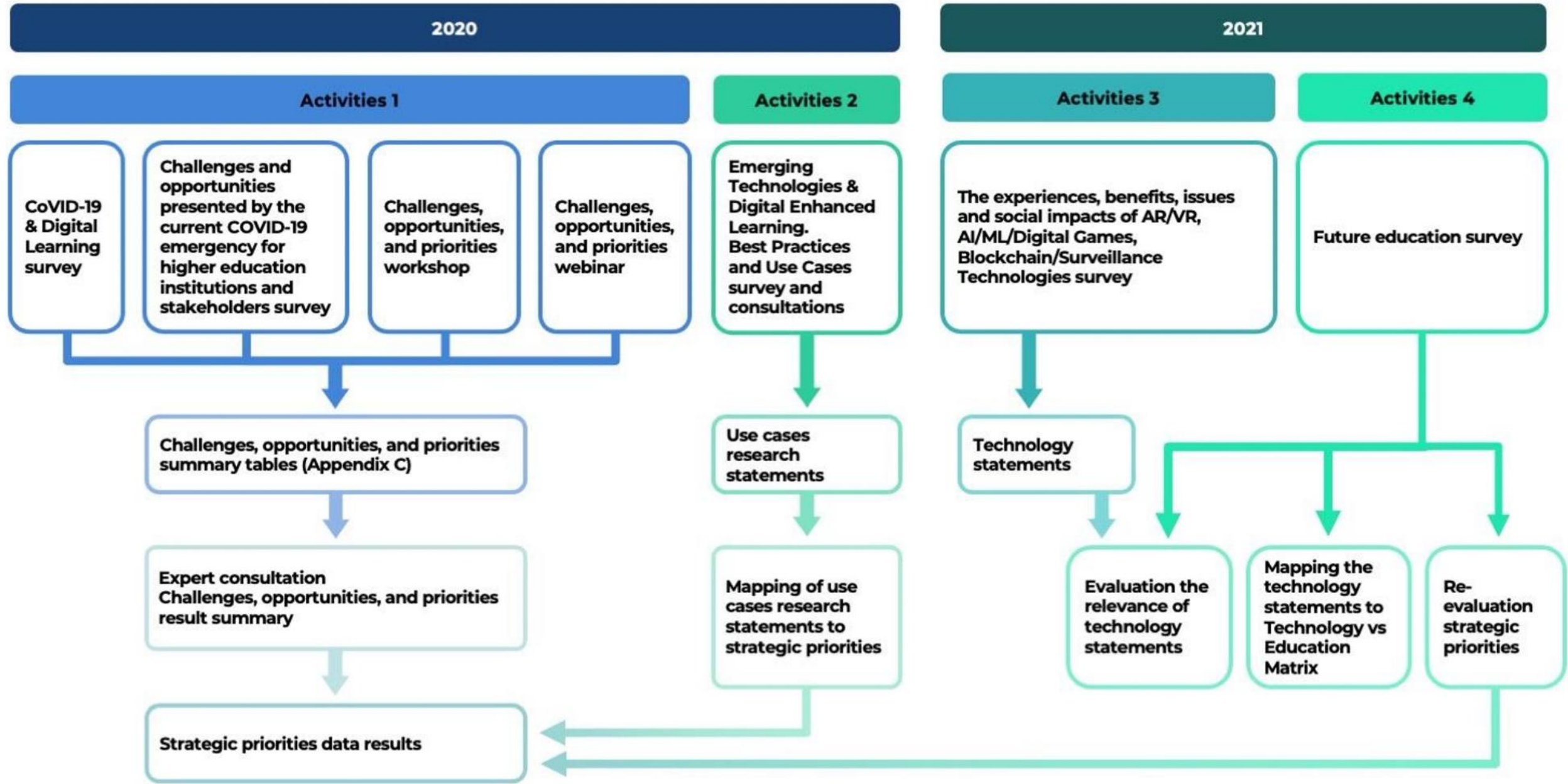
In the second year of the pandemic, "**Zoom fatigue**" and "**Survey fatigue**" arose.

As a response **we pivoted to two-dimensional surveys, redesigned our project** and **indicated research priorities and policy recommendations** for Horizon Europe.



## COVID -19





# DATA COLLECTION

**5** Surveys – total of **147** responses

**15** expert interviews

**98** experts engaged

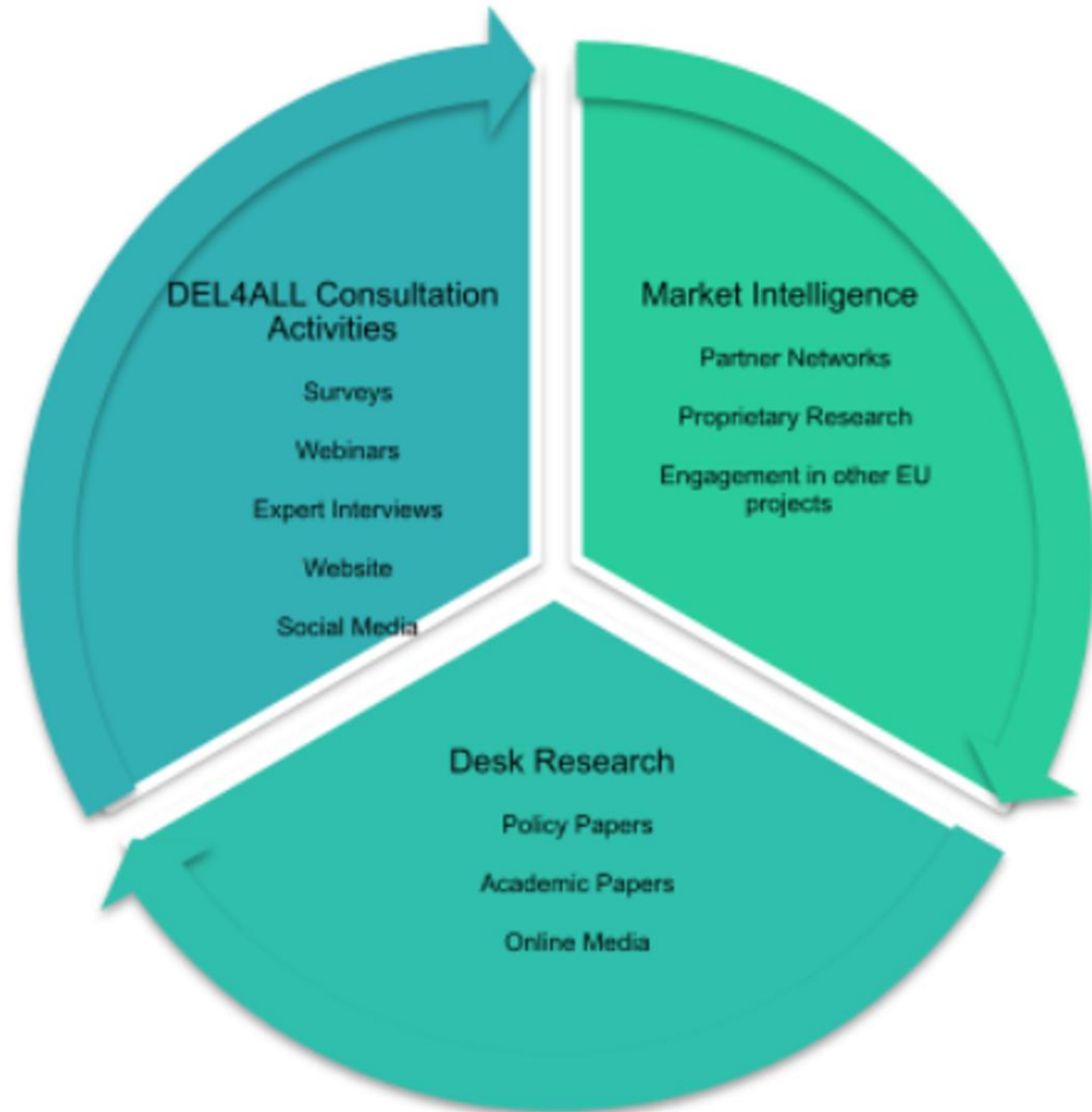
**9** events (webinars, workshops and large events) – **270** attendees

**503** projects and initiatives collected

**Recommendation statements** derived from the community consultations and aligned to the EC's Digital Education Action Plan (2021-2027)

- **12** prioritized challenges

- **17** research areas



1	<b>Digitalisation</b> of education, <b>inclusion</b> , and <b>investment</b>
2	<b>Technology adaptation</b> in education
3	<b>Digital skills, competencies</b> , professional development, and <b>capacity building</b>
4	<b>Resilient</b> educational <b>infrastructure</b>
5	<b>Transformation</b> of education <b>system</b>
6	Standardisation and <b>improvement of online education</b>
7	Standards and <b>policy changes</b>
8	<b>Lifelong learning</b> , learning design, new courses, work-based learning, <b>personalised learning</b>
9	<b>Institutional changes</b> (retaining students, progress monitoring of teachers, admin processes, open debate, IT issues, rethinking of business model)
10	Usage of <b>AI, VR, Gaming, Blockchain, ML, Learning Analytics</b> , Learning Management Systems, Micro-content
11	<b>Project based</b> teaching and learning
12	<b>Privacy and security</b> issues



## PRIORITISED CHALLENGES

# DEL4ALL STRATEGIC PRIORITIES VS. DEAP

## Priority 1. Development of a high-quality digital ecosystem

1. Cross-institution exchange and community building
2. Concepts for education infrastructure
3. Sharing best practices between education institutions
4. Open debate about the future of education
5. Standardisation for interoperable learning records
6. Monitoring and project-based teaching practices

## Priority 2. Improving digital competencies

1. Capacity building and skills development of educators
2. Creating a hybrid model presence
3. Converting offline teaching to online teaching material
4. Reorganising IT infrastructure add to the HEI strategy
5. Course recommendations

## Priority 3. Reconstructing student experience

- 1 Learning Analytic tools to follow student learning journey
- 2 Facilitating opportunities for lifelong learning
3. Alignment between education system and labour market
4. Digital Equity (equal access to digital technologies)
5. Identifying students at high risk
6. Access and Universal Design for Learning

Priority Areas	Objectives
Fostering the development of a high-performing digital education ecosystem	<ul style="list-style-type: none"><li>• Infrastructure, <u>connectivity</u> and digital equipment</li><li>• Effective digital capacity planning and development, including up-to-date organisational capabilities</li><li>• Digitally competent and confident teachers and education and training staff</li><li>• High-quality learning content, user-friendly tools and secure platforms which respect e-privacy rules and ethical standards</li></ul>
Enhancing digital skills and competences for the digital transformation	<ul style="list-style-type: none"><li>• Basic digital skills and competences from an early age</li><li>• Digital literacy, including tackling disinformation</li><li>• computing education</li><li>• Good knowledge and understanding of data-intensive technologies, such as artificial intelligence (AI)</li><li>• Advanced digital skills, which produce more digital specialists</li><li>• Ensuring that girls and young women are equally represented in digital studies and careers</li></ul>

# DEL4ALL RESEARCH AREAS ALIGNED WITH DEAP

1. Cross-institution exchange and **community building**
2. **Sharing of best practices** between higher education institutions
3. **Open debate** about the future of education
4. **Standardisation** for interoperable learning records
5. Monitoring and **project-based teaching** practices
6. **Continuous comparison** to non-digital-based solutions
7. **Creating a hybrid model** between online and offline presence
8. **Reorganising IT infrastructure** and IT to be part of the higher education institution strategy
9. **Course recommendation**
10. Enhancing the competence of **self-controlled learning**
11. Developing and carrying out **online exams**
12. **Learning analytics tools** in online lectures and follow students in their learning journey
13. Facilitating opportunities for **lifelong learning**
14. Better **alignment between the education system and the needs of the labour market**
15. **Digital equity** (equal access to digital technologies)
16. Identifying **students at high risk**
17. Access and **universal design for learning**

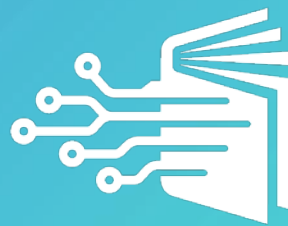


## RECOMMENDATIONS

The responses highlight ***missing infrastructure, and lack of digital skills and training in the usage of, and appropriate pedagogies for, available emerging technologies.***

This research agenda suggests that future ***educational technology research should be driven by the best pedagogical uses and requirements of emerging technologies and supported by training and infrastructure.***

***Digital pedagogy, lifelong learning, digital equity and the digital divide have an importance for the expert community that should be reflected and prioritised in future research activity.***



# THANKS

---



[DEL4ALL.EU](http://DEL4ALL.EU)



[@DeI4ALL](https://twitter.com/DeI4ALL)



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 871573