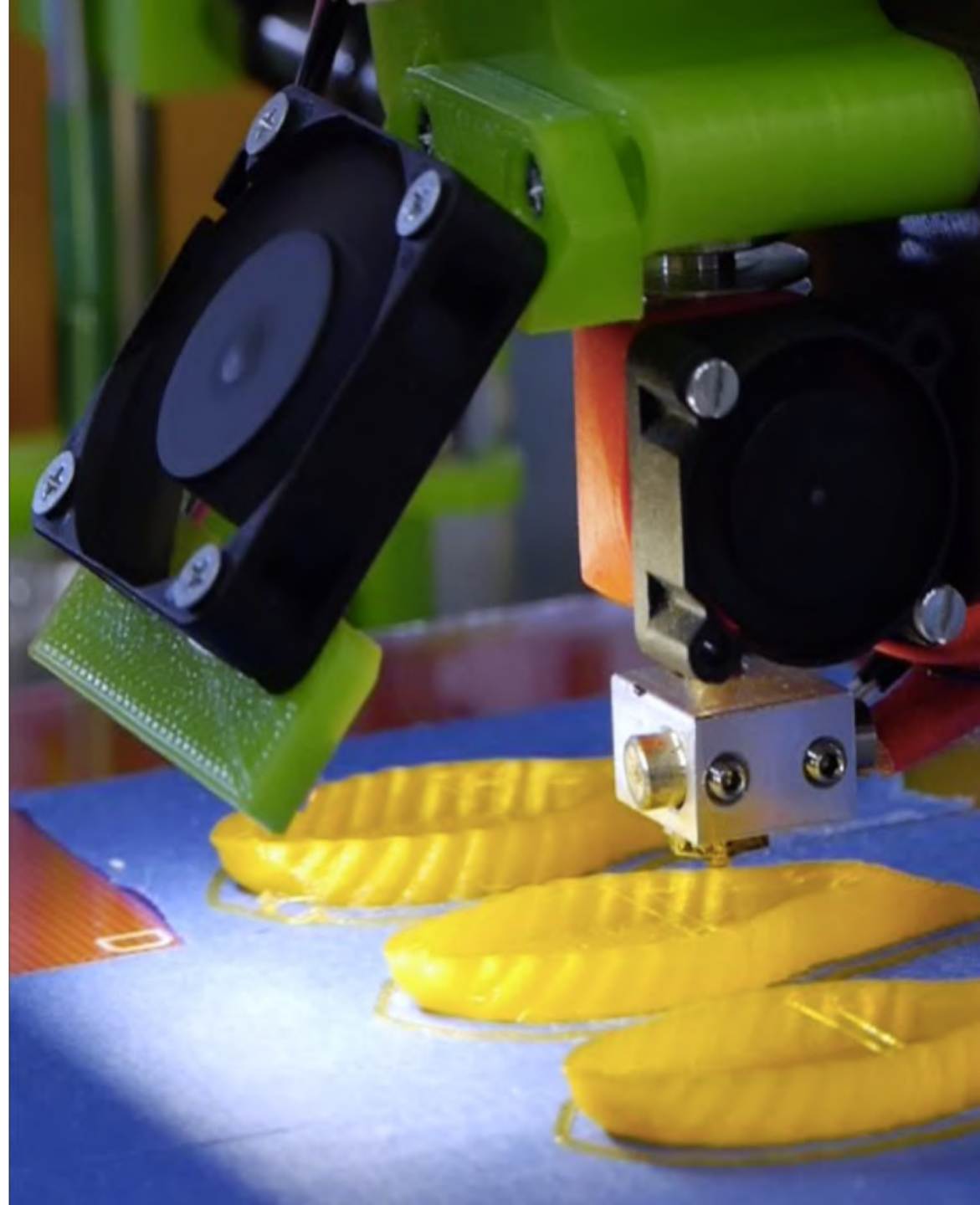





OpenMaker

Find your fit in the 'making' revolution





"The challenges of increased use of technology and automation will affect all jobs and industries. Making the most of the **new opportunities** whilst mitigating any negative impact will require a massive investment in skills and a **major rethink** of education and lifelong learning systems."

*European Commission,
White Paper on the Future of Europe, 2017*

The Project

OpenMaker is a pan-European project aiming to seed and accelerate the **4th Industrial Revolution** by bringing together **makers** and **traditional manufacturers** in both physical and digital environments and unlock their disruptive potential for social change.

Reinvigorating the manufacturing sector is a complex task that requires transformation at the heart of production processes and models upon which our industrial society has been built.

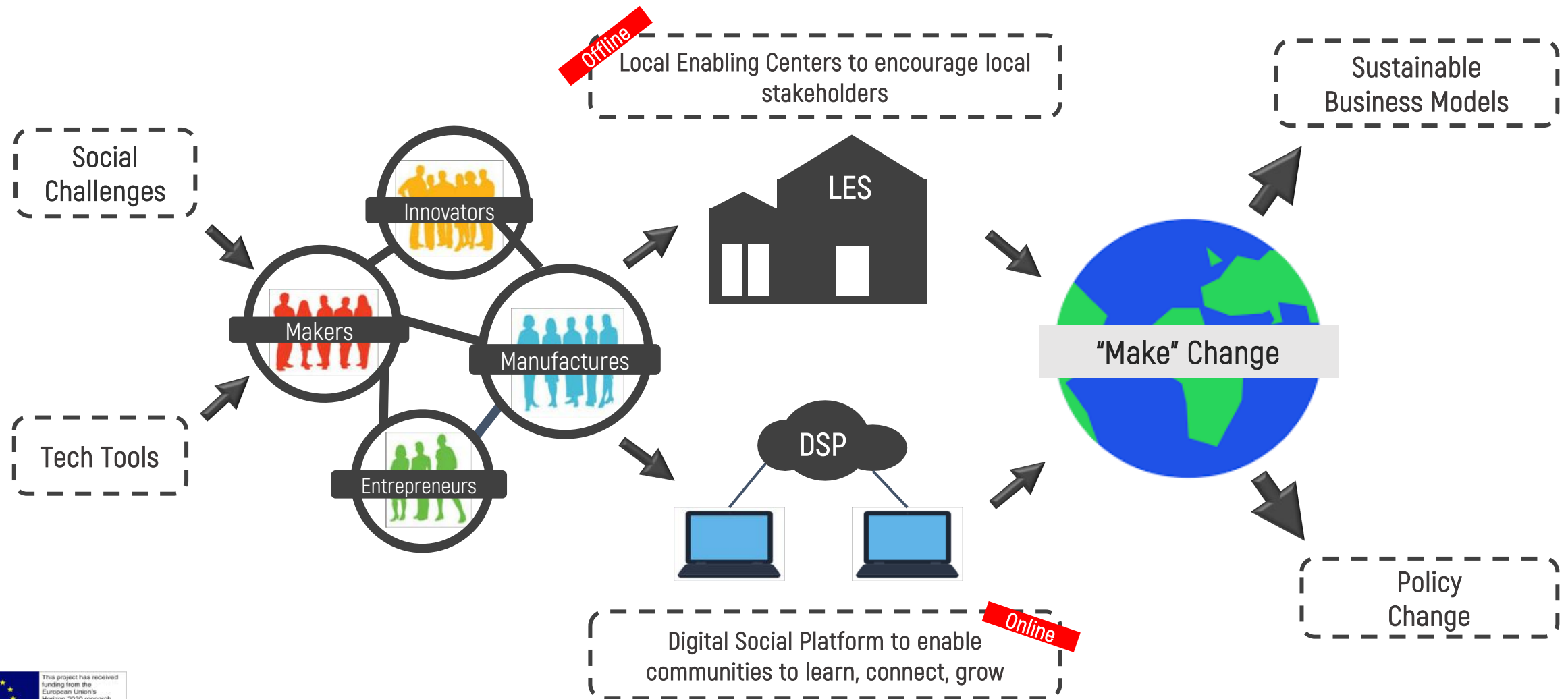
Inroads in generating this scale of shift in manufacturing have been made in areas conducive to open technologies in the fields of digital fabrication and craftsmanship – where the manufacturing sector has come into contact with the emerging social-technology based **Maker movement**, innovation and growth emerges.

1. To accelerate the 4th Industrial Revolution, by driving mass collaboration between manufacturers and makers.

2. To create a transformational and collaborative ecosystem that fosters collective innovations.

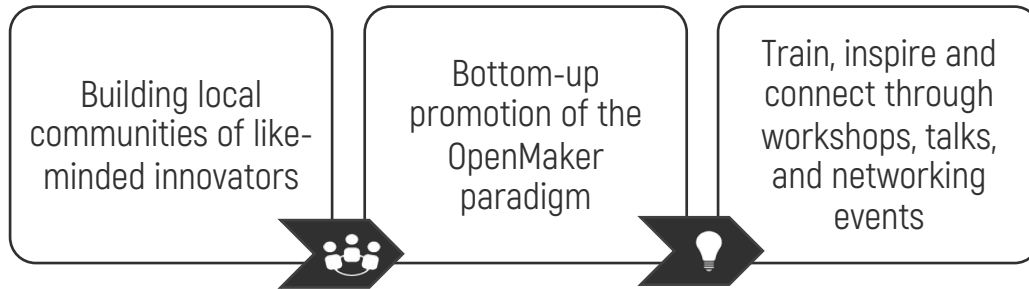
3. To drive the European manufacturing sector towards more sustainable solutions.

Concept & Objectives



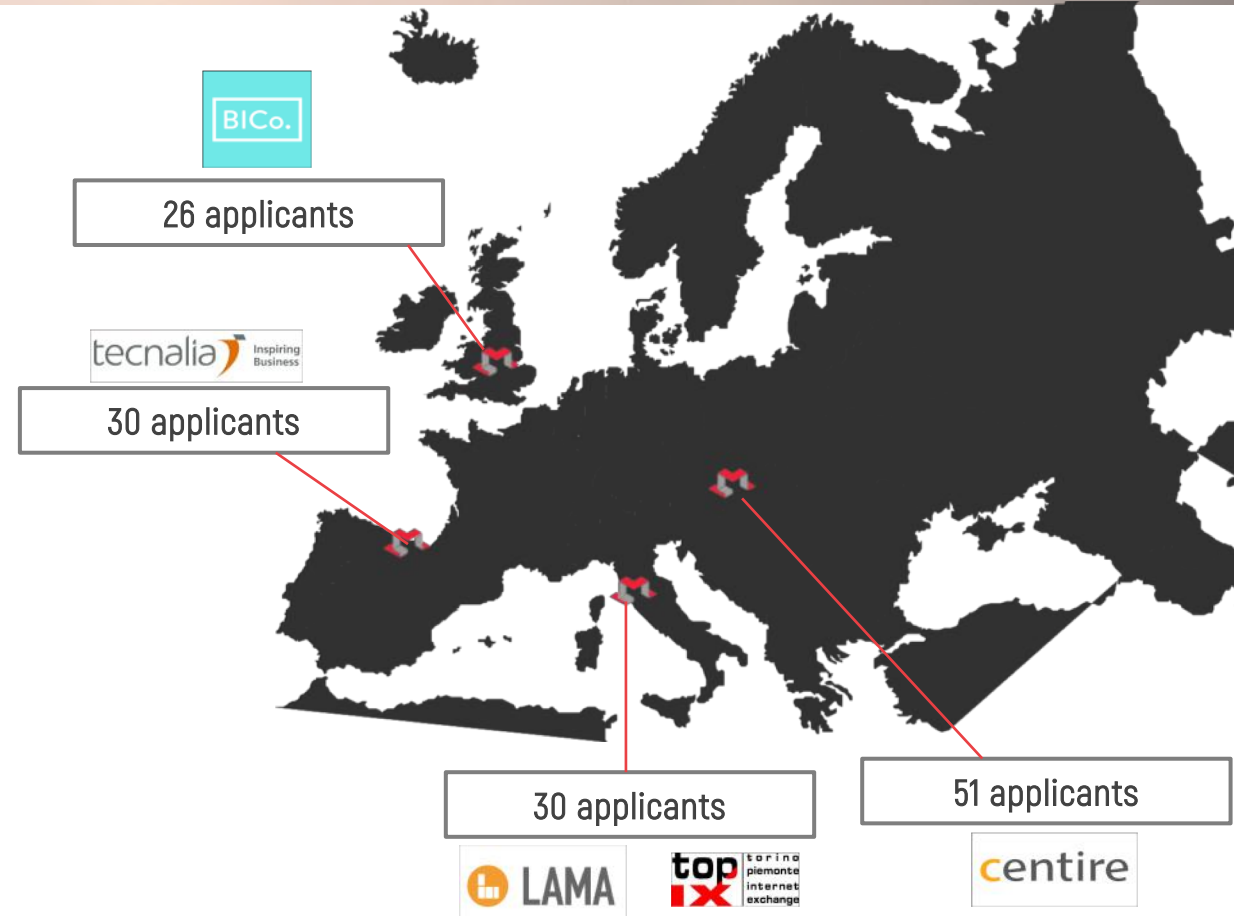
Off-line: Local Hubs

Pilot Support Scheme – Open Call for Proposals



Outreach to
500k people

100 events
33 000 people from industry sector
+ 51 000 people from makers/hacker spaces
333 000 people from non-specialist groups



137
proposals

310 Makers, Manufacturers and Stakeholders
40 semi-finalists and 21 winners

Online: Digital Social Platform

explorer.openmaker.eu

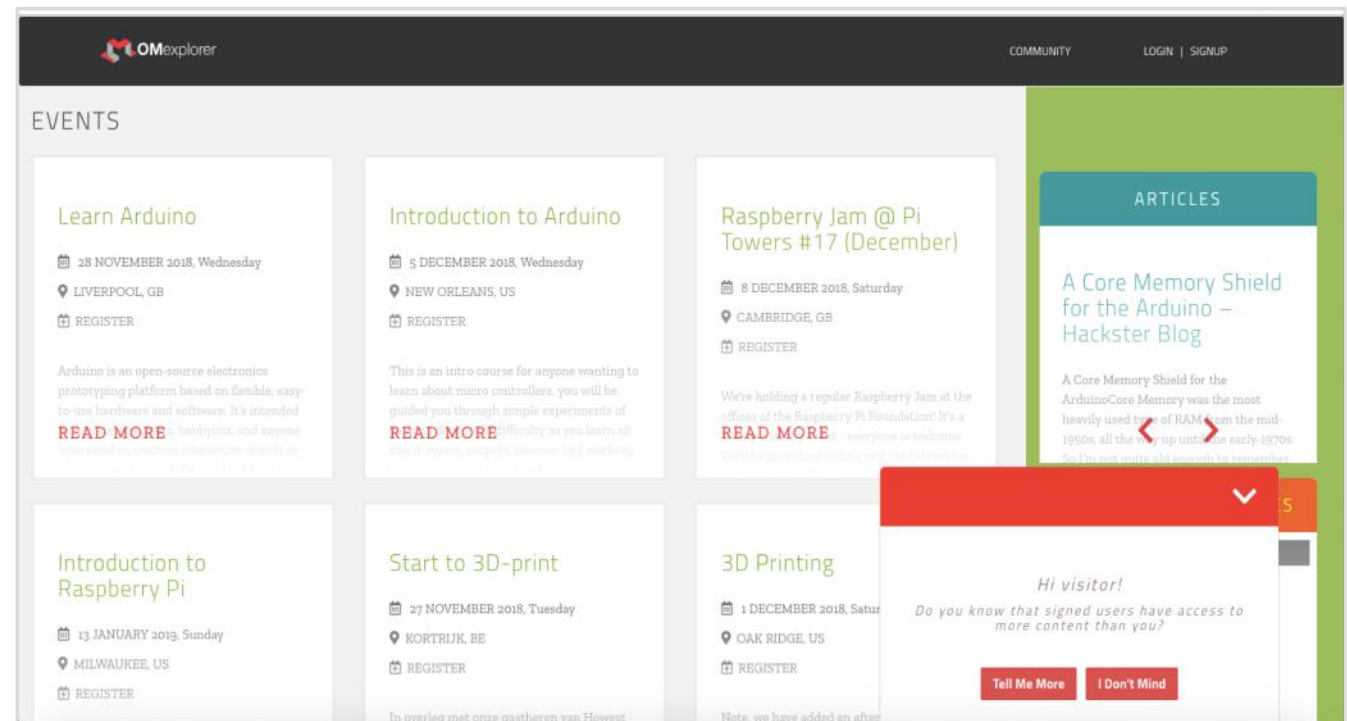
The OpenMaker Digital Social Platform (OM-DSP) aims to provide OpenMaker participants with a digital environment to stay engaged, thereby supporting participants to better develop their **social capital** and increase their **social impact** in terms of **innovation**, **knowledge transfer**, and **business success**.

The OM-DSP will build on members' concrete needs and values and bring them together in a community-building process, multiplying the innovation potential of each accelerator programme thanks to a novel approach to social platforms based on notions of **shared values** and **trust-based networks**.

1. Development of framework and infrastructure

2. Novel network measures of social impact

3. Machine learning for co-creation of community systems



Policy Change

The Consortium is putting forward **policy recommendations** that promote open manufacturing across geographical and socio-economic borders.

Two high-profile policy events were organised at the European Parliament in Brussels on the occasion of the Launch of the European Maker Week (2017 and 2018 edition) innovators and policymakers from across Europe.

Policy objectives:

1. Empower the relationship between makers and manufacturers by rethinking the supply chain and enabling public-private partnerships
2. Supporting education 4.0 and develop curricula for makers and fablabs
3. Active engagement in the policy arena



OpenMaker Policy Brief

What is the Maker Movement?

Makers engage passionately with and open software technologies creating new objects or developing tech-driven projects (Do It Yourself). Recently, we have assisted to the proper global "maker culture", values, ethos and behaviours innovation, collaboration and self-education.

Projects like Arduino have made more accessible and new facilities makerspaces have popped up, helping to develop off-line as communities of practice.



Why does it matter?

Manufacturing in the EU employs contributing to more than 80% of companies providing about the 59% Open manufacturing could represent new challenges in terms of tech dynamics. SMEs can embrace the domains, as well as benefiting from transformation strategies.

OpenMaker aims to develop and help Europe in its transition to collaborative ecosystem that can debate where critical questions are these two groups of players face it.

Is the EU up for Europe competitiveness

OpenMaker Policy Note

On 22nd of May the **Openmaker** project, led by **PlusValue** and the **Young Foundation**, organised a High-Level policy event, hosted by **Georgi Pirindki MEP** at the European Parliament. The objective was to bring together members of the "maker community" with policy makers to facilitate dialogue and produce concrete and actionable policy recommendations to **unlock the transformative power of the maker movement in Europe**. The event showcased examples of cutting edge projects¹ with social and economic impact and the discussion developed around topics such as **technological and social innovation, Industry 4.0 and new sustainable business and organisational models**, in light of the ongoing debate within the EU institutions on the long-term budget of the Union (Multiannual Financial Framework-MFF).

The main recommendations which arose from the event were:

- 1) **Empower the relationship between makers and manufacturers by rethinking the supply chain and enabling public-private partnerships**
MFF: The "Open Innovation" pillar of the proposed Horizon Europe program (so-called "PPS") is focused on incentivizing and scaling up small scale innovations through high potential breakthrough technologies. The proposed InvestEU programme also focuses on mobilising funds for innovation as one of its core aims.

Makers and SMEs are able to produce breakthrough technologies. Integrating them into existing supply chains would maximise their transformative potential and develop positive spill over effects across the ecosystem. Fostering public-private partnerships could create collaborative physical and online spaces for makers and established manufacturers to work together. Large companies will become more agile, innovative and intrapreneurial, and embed principles of co-creation, rapid prototyping and trial and error in the company culture. Makers will see their innovation to scale, bringing benefits to the manufacturing industry and the society alike.

There is an opportunity for large corporates and policy makers to:

- **Support the development of a new manufacturing paradigm:**
 - o Shifting away from mass production and moving towards low-carbon energy sources, circular economy processes and fair employment practices.
 - o **Developing public-private partnerships** This may involve the creation of physical spaces as well as non-physical ones (i.e. networks, online support, mentorship programmes), which will reduce future divides and promote an inclusive innovation ecosystem. An example is provided by the Local Enabling Spaces model of the **OpenMaker** project.
 - o **Reshoring production and encouraging the development of regional clusters, based on geographical proximity.** First stage reshoring candidates should be industries where proximity between design, manufacture and the consumer has high value, for example the fashion industry.
- **Sustain and co-invest in upgrading existing supply chains, supporting innovation capacity and capability development across supply chains** (at all stages), both at technical (i.e. upgrading automation) and human level (i.e. encouraging partnerships with innovators, makers and creatives). Actively investing in small scale makers and SMEs in the supply chain will increase quality, efficiency and enhance supply chain resilience. SMEs will be helped to avoid dangerous "dependency" paths and thus become more sustainable and scalable. From a societal standpoint, these strategies can help to decentralise and democratise innovation and share the rewards of industry 4.0 throughout the economy.

¹ Four makers presented their businesses on the day: **Aquapioneers, ShoeBird, Co.Bio.Pro** and **BIOM**

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