

Smart manufacturing by the digital transition

Create values for business and sustainability by shared data and digitalization (tokenization)





ORGANISATION PROFILE

Alminica AB, Linköping, Sweden, a micro SME

Founded by Dr. Mikael Syväjärvi based on his experience in advanced materials crystal growth and manufacturing since 1995 (silicon carbide semiconductor, graphene nanomaterial, etc).

Entrepreneurial since 2005 with own experiences in technology transfer and creating start-ups. Today also supporting others (serial entrepreneur)

Today we are active in transfer of knowledge to facilitate research to business in advanced materials manufacturing and deep/green tech

We have many years of experience in R&D projects (recently EU FET Open, EIC Pathfinder) in which we are SME partner in transfer of knowledge (innovation, impact, exploitation).



PROPOSAL INTRODUCTION (I)

Vision: main project goal

Strengthen manufacturing by the digital transition. Create values for business and sustainability by shared data and digitalization. That leads to digital assets for business and sustainability. This is called tokenization.

Physical asset

+

Digital asset

+

Sustainability asset

More research outcomes to (real) business.

Motivation: why the project is necessary

There is a digital transition. Ecodesign for Sustainable Product Regulation (ESPR), Digital Products Passport (DPP), Data Spaces, Data act, etc.

We will need to share data

Content: which are the developments to be made in the project

We want value/supply chains to apply our model to and develop to suit the actual real case.

raw materials



manufacturing



characterization



device

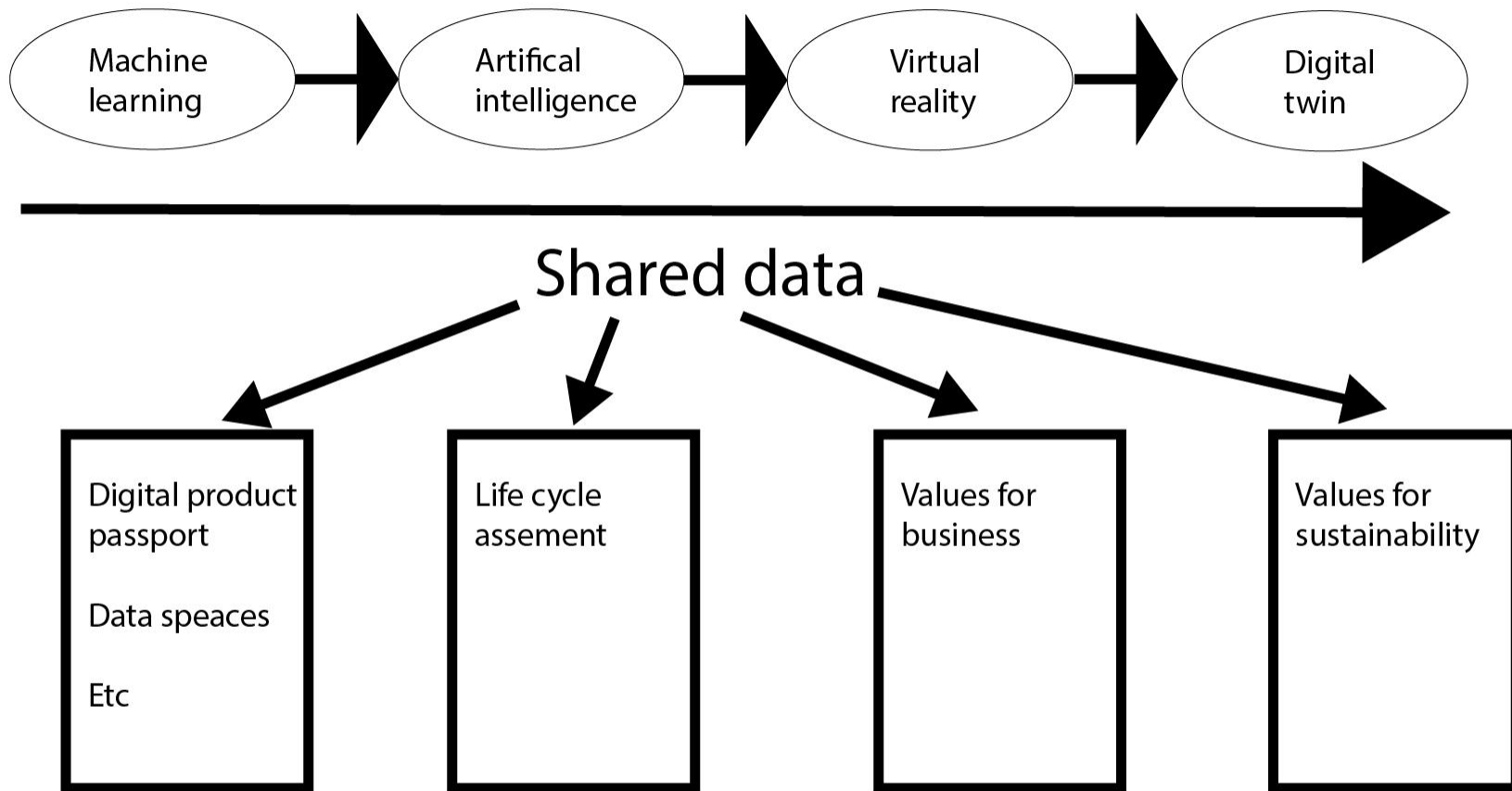


industry



system/society

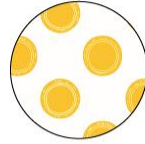






Physical asset

+



Digital asset

+

CO₂

Sustainability asset



PROPOSAL INTRODUCTION (II)

Expected outcome: descriptions of the results to be obtained in the project

A model for values for business and sustainability that is tailored for the particular manufacturing case.

Impacts: what will be the expected market impact of the project

More research to business, increased resilience, lower CAP EX investment need, earlier investors.

Schedule: start and end dates for the project. Duration.

We are ready now.



PARTNERS

Current Consortium: list of partners already involved in the project

None. We have a pilot in our own technical area (silicon carbide).

Partner search: type of partner searched and countries of origin (if necessary).

Not relevant, we collaborate with everyone.



CONTACT INFO

Contact info: of the person coordinating the project proposal

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