



In partnership with



Sébastien MASSART
Head of Corporate Strategy
Dassault Systèmes

<http://standardsdays.afnet.fr> - AFNeT Standards Days 2020 : 6 & 7 October 2020 – team@afnet.fr



3DEXPERIENCE®

Manufacturing in the Age of Experience

AFNET – Standardization Days

6 octobre 2020

Sébastien MASSART, Head of Corporate Strategy

Our belief

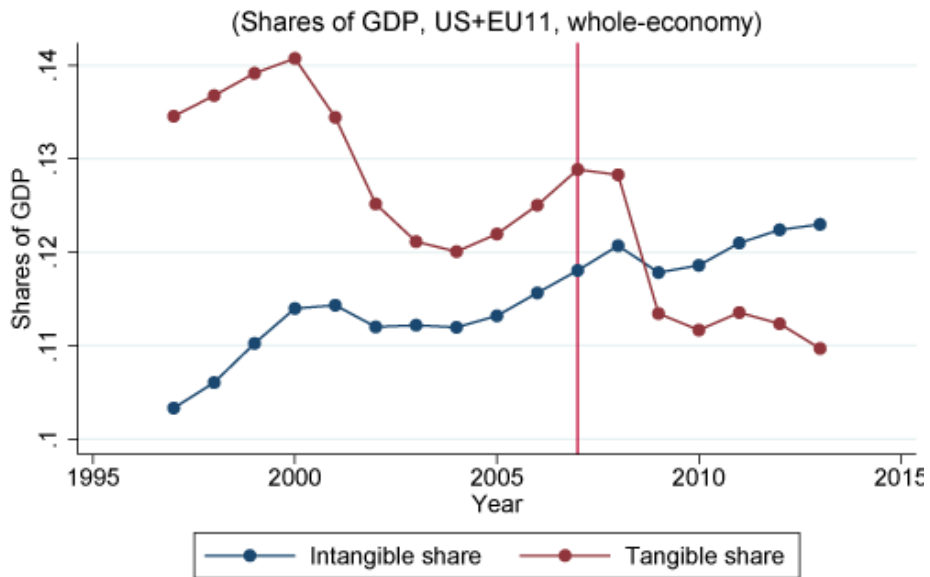
© Dassault Systèmes | Confidential Information | 26/05/2020 | ref.: 3DS_Document_2020



Virtual worlds **extend**
and **improve** the
Real world

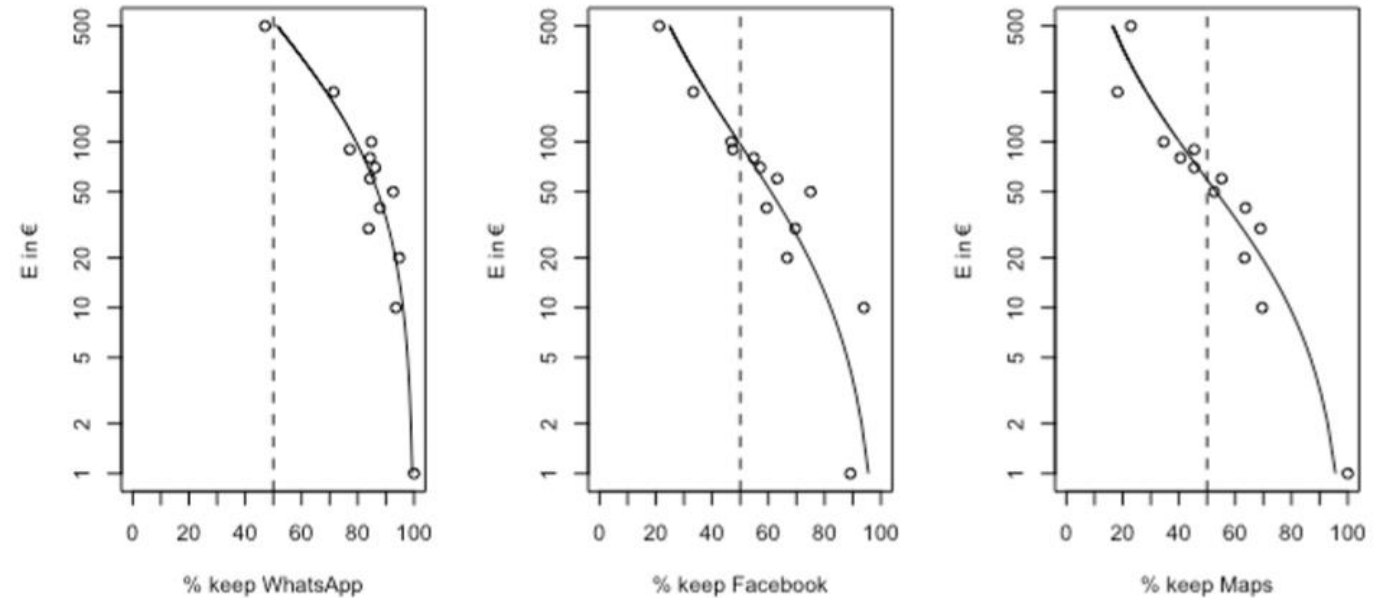
News Laws of Economics in the Age of Experience

Virtual > Tangible Value



Source : J. Haskel and S. Westlake

Platform Value is unmeasured



Source: Erik Brynjolfsson, 2019

See: Michel Volle's [blog](#), or Erik Brynjolfsson's article: [Accounting for the Value of New and Free Goods in the Digital Economy](#), or the European Commission report (2019): [« Competition policy in the digital era »](#)

Industrie du futur : les enjeux précèdent les solutions technologiques



Le contexte industriel et les éléments déclencheurs de la transformation.

Enjeux

Les réponses aux enjeux, telles que innovations technologiques, business ou organisationnelles.

Initiatives

Des exemples concrets de mise en œuvre industrielle de ces initiatives.

Ex. de Fonctions

Les retombées de la transformation, répondant aux enjeux, et souvent bien au-delà (avalanche de valeur).

Résultats




[Voir la Brochure Vitrines de l'Industrie du Futur](#)



Connecter les Filières pour les Transformer

 Automobile

 Chimie et Matériaux

 Aéronautique

 Industrie électronique

 Eau

 Ferroviaire

 Industries pour la construction

 Industries et technologies de santé


 Infrastructures du Numérique

 Industriels de la mer

 Agroalimentaire


 Bois

 Mines et Métallurgie

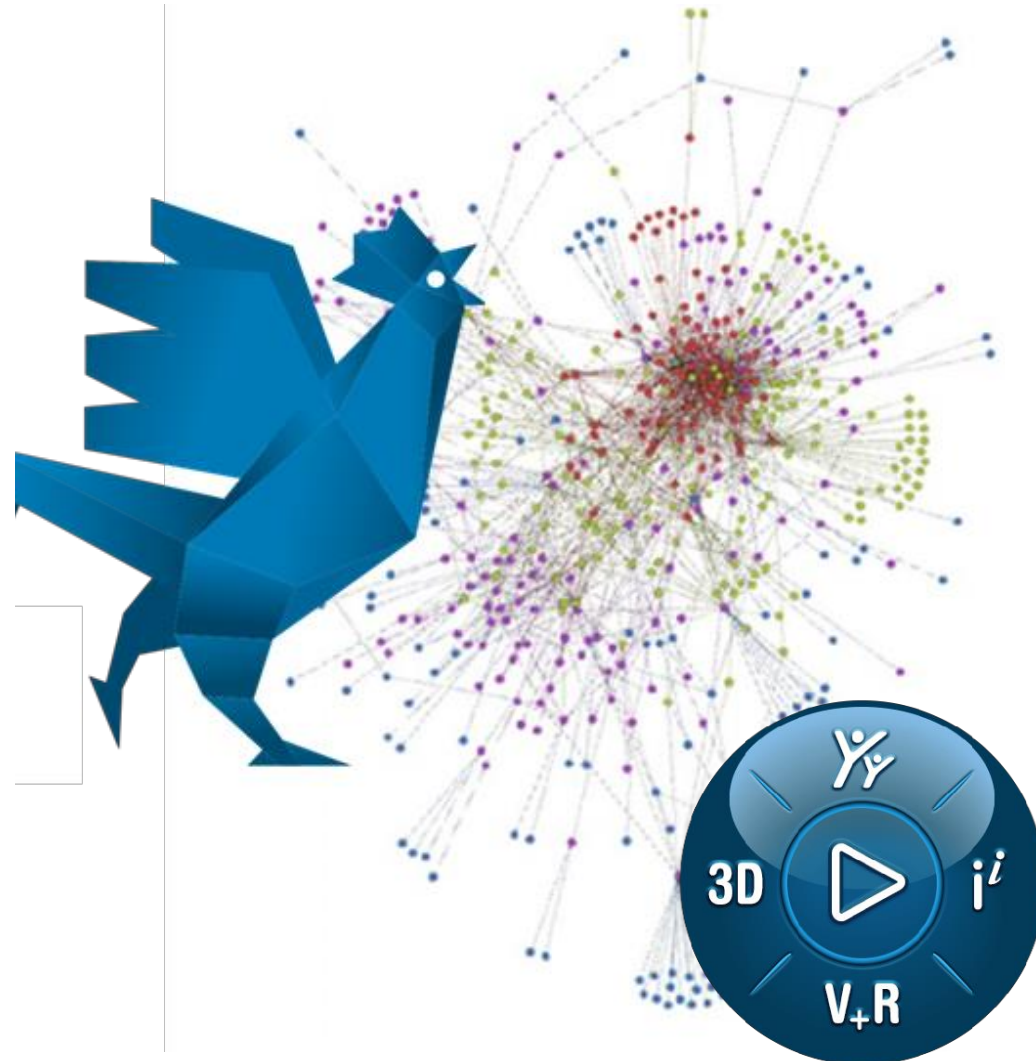
 Mode et Luxe

 Nouveaux systèmes énergétiques

 Nucléaire

 Transformation et valorisation des déchets

 Industries de sécurité

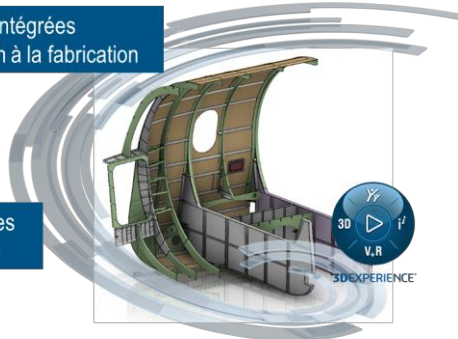


Projets Transformants des Filières

Aéronautique

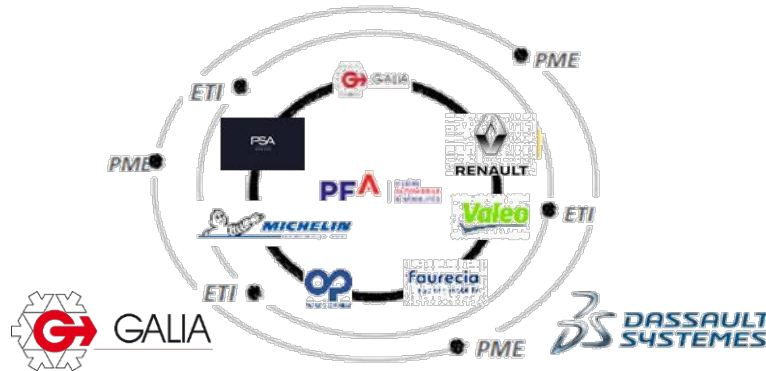
Filières intégrées de la conception à la fabrication

Ingénierie et validation des procédés de fabrication

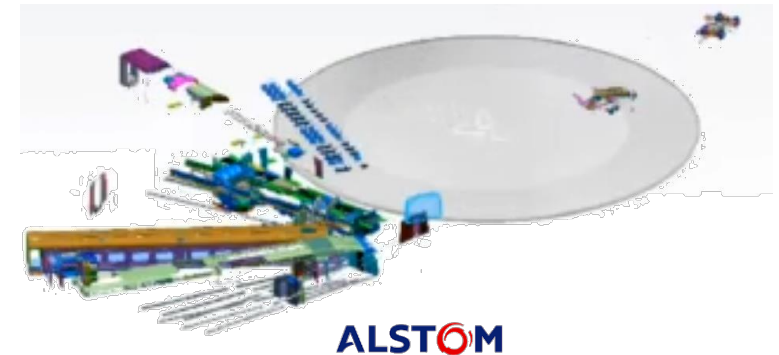


Gestion de l'information

Automobile



Ferroviaire



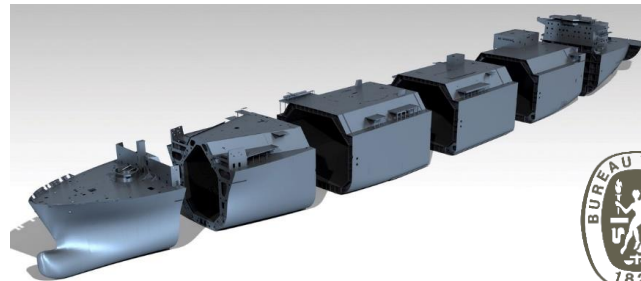
Nucléaire



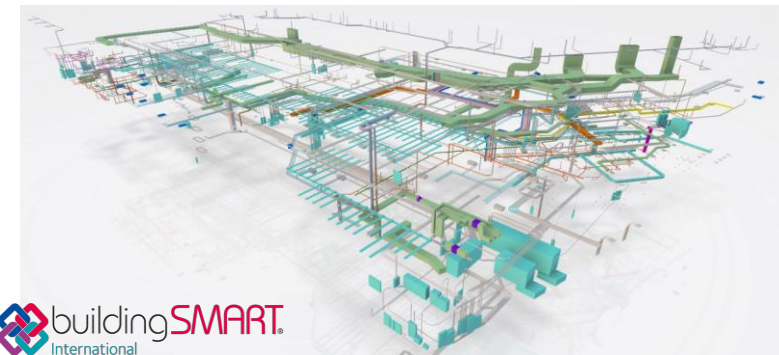
- ▶ Transform nuclear engineering business for **better operational efficiency (+30%)**
- ▶ **Control costs:** quality, supply chain, construction
- ▶ **Deliver a virtual twin** of their real nuclear power plant
- ▶ **Improve certification process**

See « PLM at EDF » video:
<https://www.youtube.com/watch?v=GeAwfiM-Ous>

Industriels de la mer



Industries pour la construction



Refonder les Filières autour de l'Expérience

Industries de santé

Labos pharmaceutiques & biotech



Dispositifs médicaux



Systèmes de santé

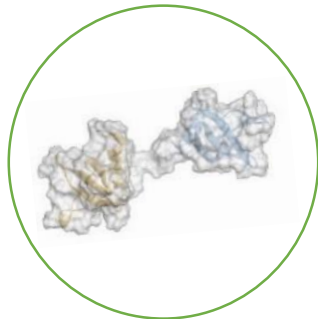
Soins



abbvie Pfizer SANOFI NOVARTIS Roche GILEAD

Medtronic smith&nephew stryker GE Healthcare PHILIPS Healthcare

ASSISTANCE PUBLIQUE HÔPITAUX DE PARIS FDA CEDARS-SINAI EUROPEAN MEDICINES AGENCY SCIENCE MEDICINES HEALTH



Molécules



Thérapies digitales

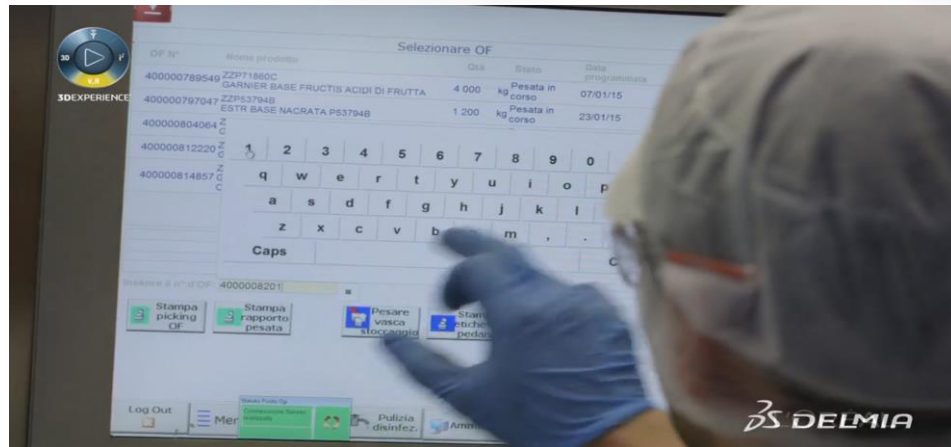
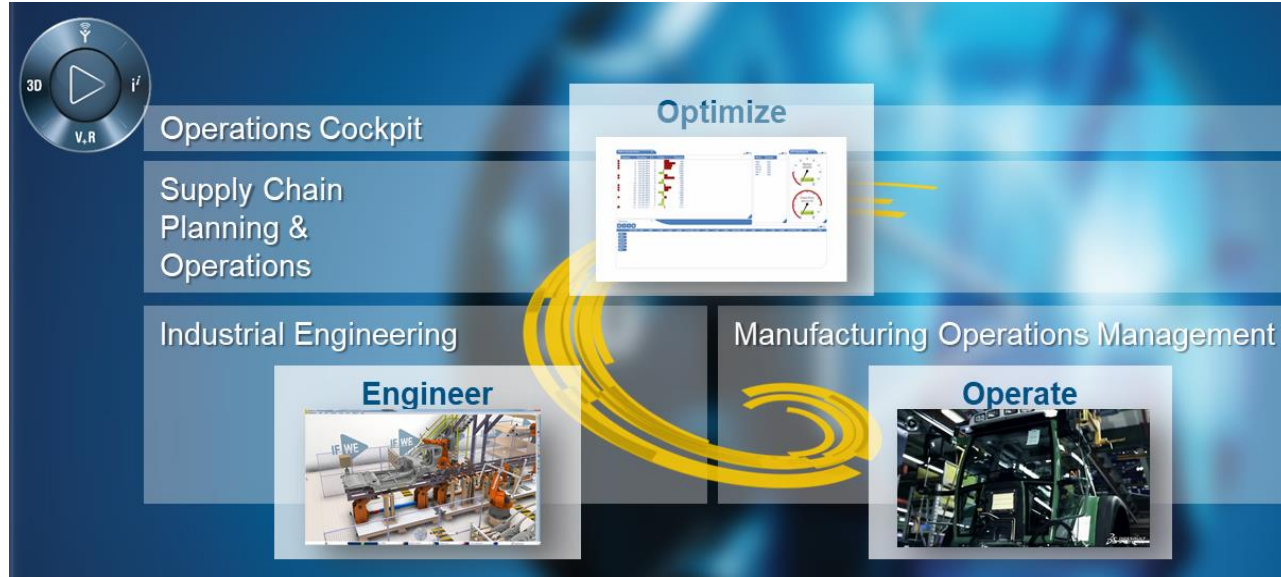


Dispositifs médicaux



Services de soins

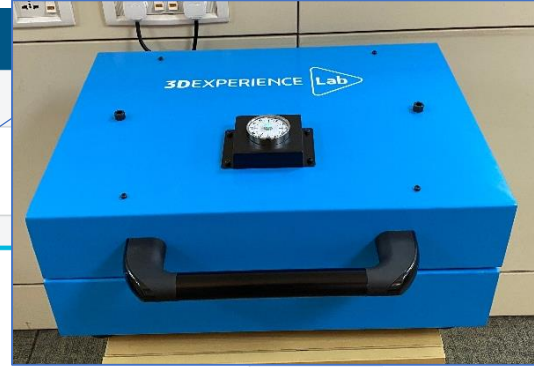
Virtual Twin for Agile Operations



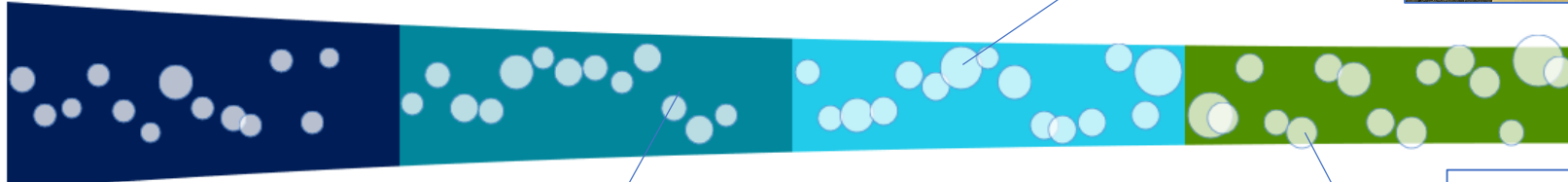
New Powers for Collaborative Innovation

3DEXPERIENCE | 3DSwym OPEN COVID19 Search Sebastien MASSART

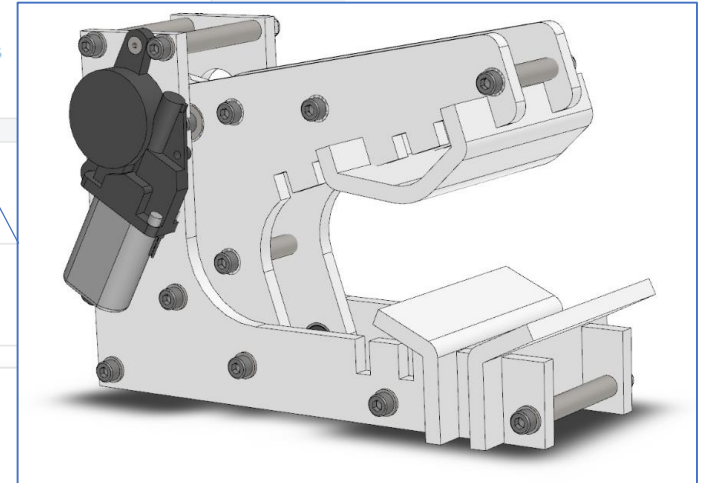
OPEN COVID19
Public



Ideas pipeline | 150



Engineering (49)	Medical Feedbacks (25) (Mature)	Consensus (30)
	Consensus	3 wks ago 6
the ventilation of PPE	Medical Feedbacks	4 wks ago 0



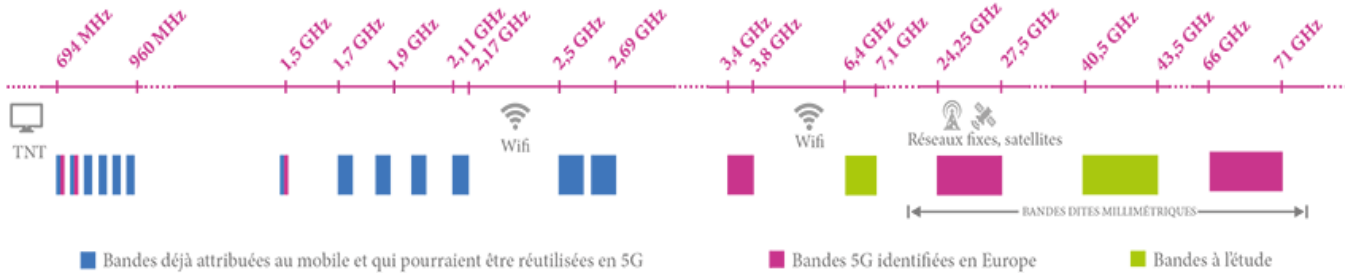
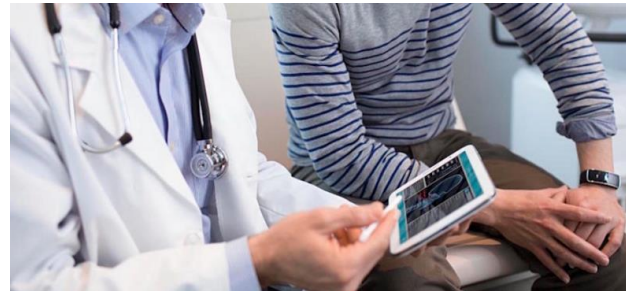
De nouvelles façons d'apprendre

Une nouvelle approche autour du Campus Fab à Bondoufle

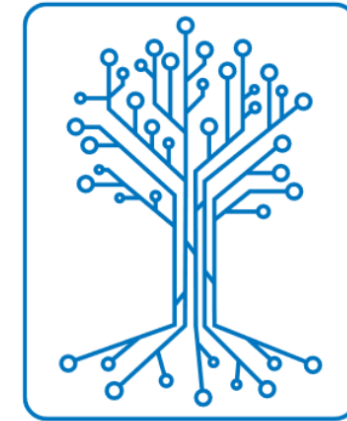


Infrastructures of Trust

Data is the New Patrimony...

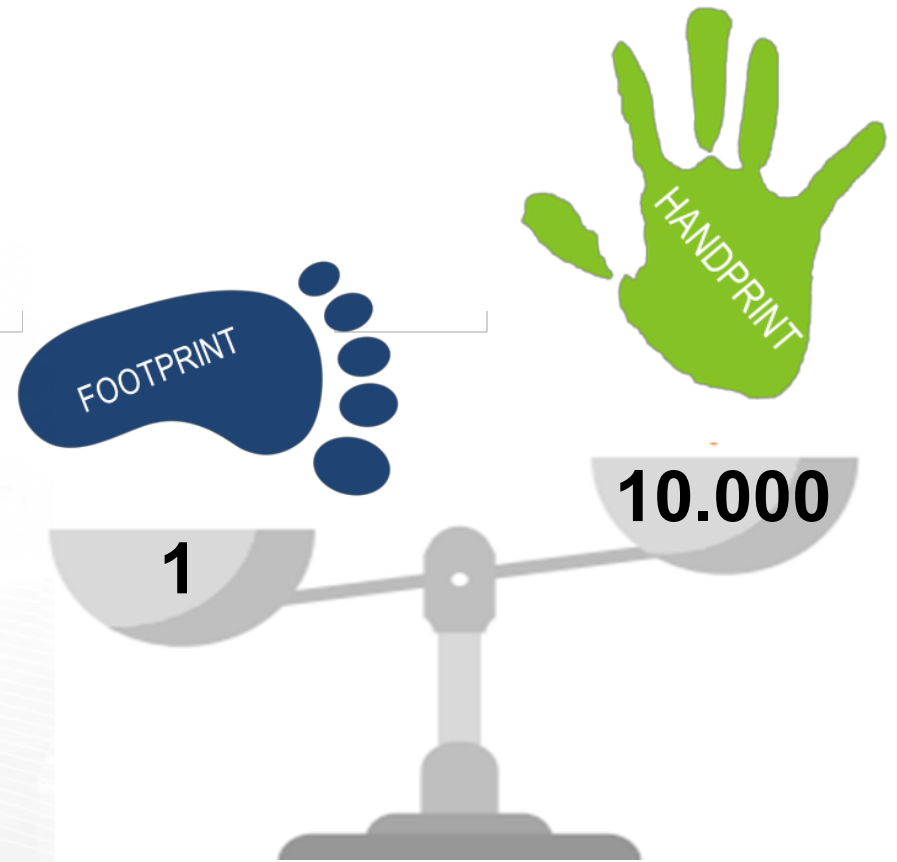


... requiring new Criteria



GAIA-X

Les filières industrielles créent un « impact net positif »



Cf. Study by Greg Norris, Harvard, SHINE initiative ([link](#))
Handprints of Product Innovation: A Case Study of Computer-aided Design in the Automotive Sector

