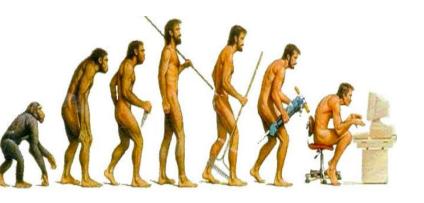


A "gig" Economy drives towards a Labour Market of individual Competencies?"

EIT Digital Academy



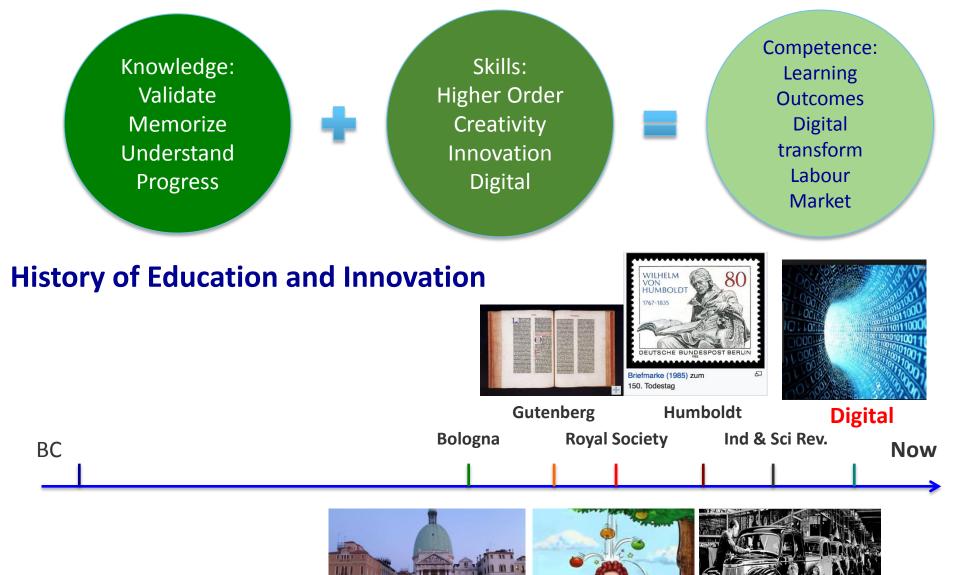
Learning as the soul of **mankind**: Homo sapiens vs. Neanderthal



Learning as an **individual** value



Learning as a **market** – in money 3x as big as the media market



Education

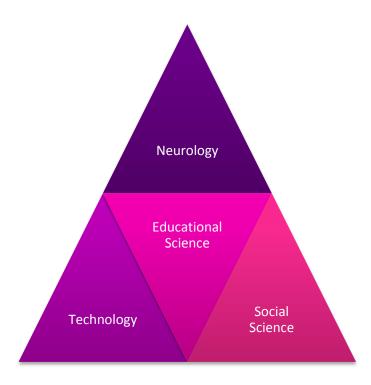
Digital
Online

Research

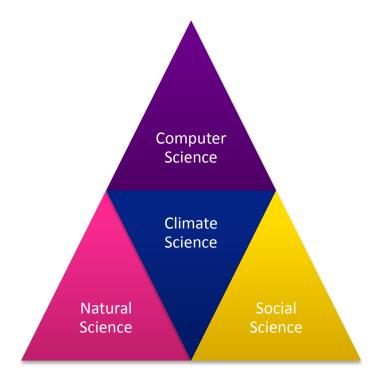
Interne
t
Learning Research

The Science on Learning

- Education Neurology
- Education Technology
- Education Social Science



- Climate Computer Science
- Climate Natural Science
- Climate Social Science



Times We live in

- Real GDP
- Actual GDP
- Note; "more with more" raises the GDP
- Technology most often aims at "more with less"
- Innovation and Jobs
- A factor of 1,5 to 2 is not OK and always debated
- Car Driving Analogy
- A factor 1 million is fully OK
- Cosmology- Star Patterns





What is a Digital Strategy?

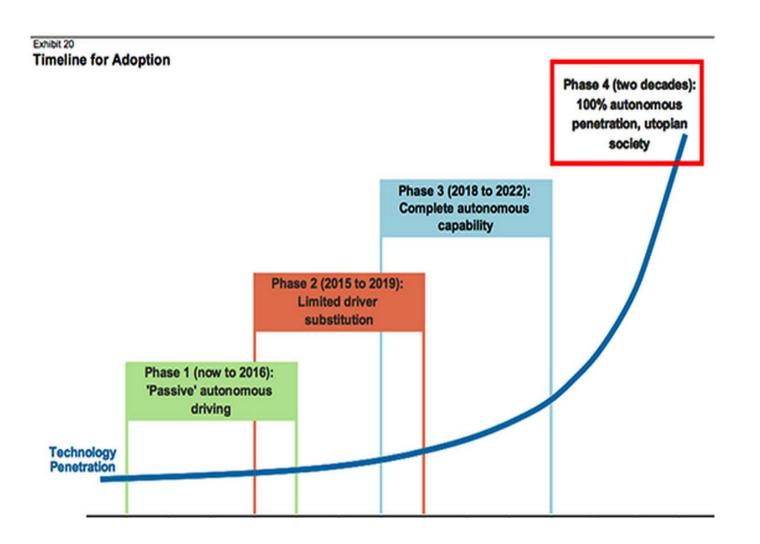
- Data Architecture (logical model)
- Program Architecture (software)
- Hardware Architecture
- Network Architecture
- Cyber Security Architecture
- Business Model Architecture

What is digital transformation?

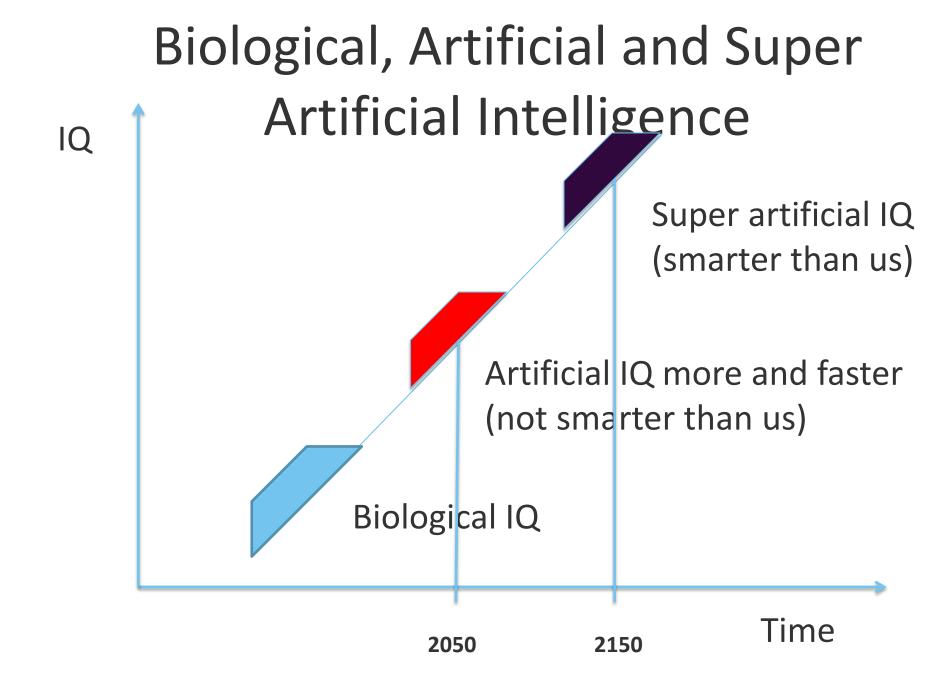




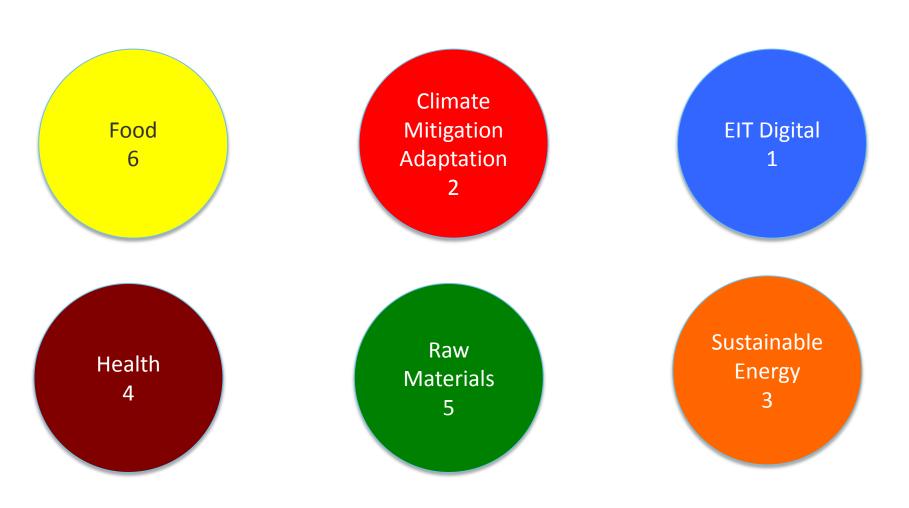
Self Driving Cars



Sensors
Digitalisation
Wireless
Algoritms
Batteries



Challenges or EIT KICs: Part of the Horizon2020 (≈5 %)



ERB Integration: Knowledge Triangle



A Cornerstone of the EIT strategy and operations:

- Our ecosystem
 - ERB partners
 - The CLC (co-location) model
- Our integrated Innovation & Entrepreneurship pillar
 - Action-Line driven
 - Cross-pollination
- Our entrepreneurial Education Pillar

Keywords in the World of Golfing



Processes	RESULTS	Technologies	People
Swing	Par	lron	Competitors
Putt	Score	Driver	Teams
Chip	Birdie	Wedge	Caddy
View	Eagle	Rules	Referee
Drop	Bogey	Course	

Keywords in the digital World



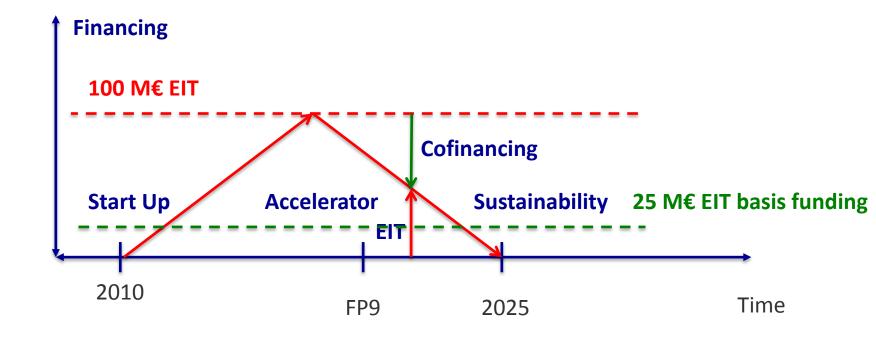
Processes	Technologies	People
Agile	Platform	Collaboration
Scrum	Network	Teamwork
Design thinking	Pervasive	Empowerment
Integration	Interface	Multidisciplinary
Accelerator		

Keywords in the learning World

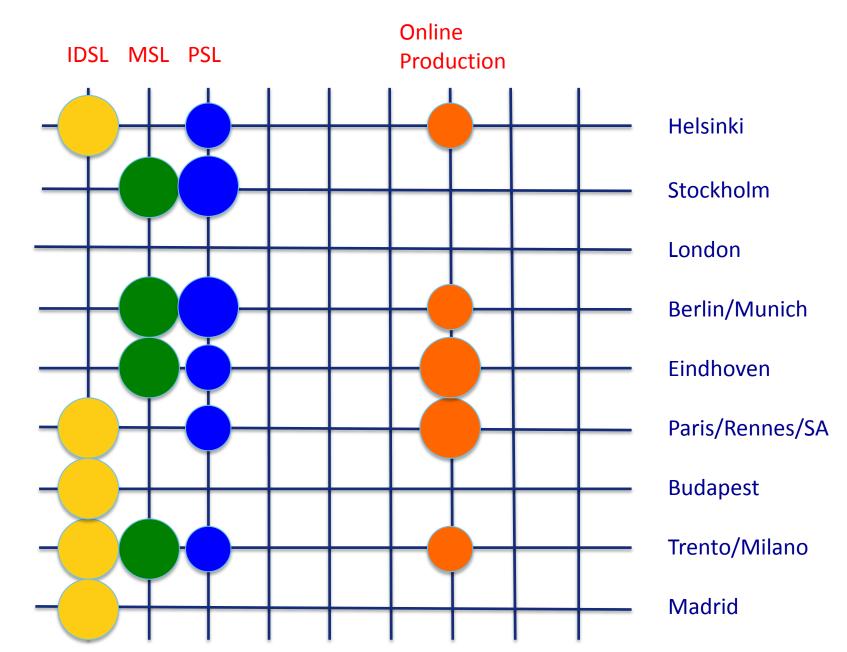


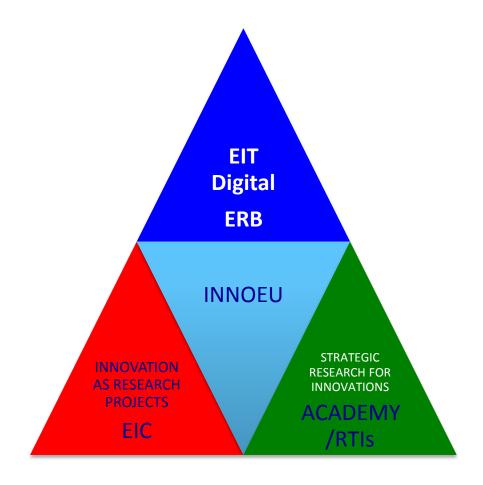
Processes	Technologies	People
Teaching	Classroom	Exchange
Learning by doing	Books	Teamwork
Skills Training	Blended	Mentors
MOOC	MOOCs	Multidisciplinary
Blended	Laboratory	Faculty
Quality	Integration	
Integration		

Financing EIT Digital



EIT Digital Academy Map





PROBLEM:

- EUROPEAN FIGHT BETWEEN DIFFERENT EU DGs
- EUROPEAN FIGHT BETWWEN DIFFERENT ACTORS AS UNIVERSITIES, RESEARCH INSTITUTES AND EIT KICS
- A NEED FOR A COMMON STRATEGY NOT FOR LAMY TYPE REPORTS

A World in Need of Collaboration/Integration: We work with University and Industrial Partners

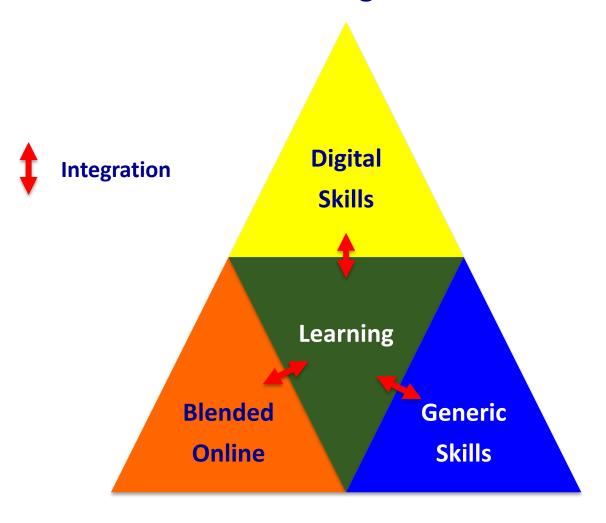
The easiest way to collaborate...

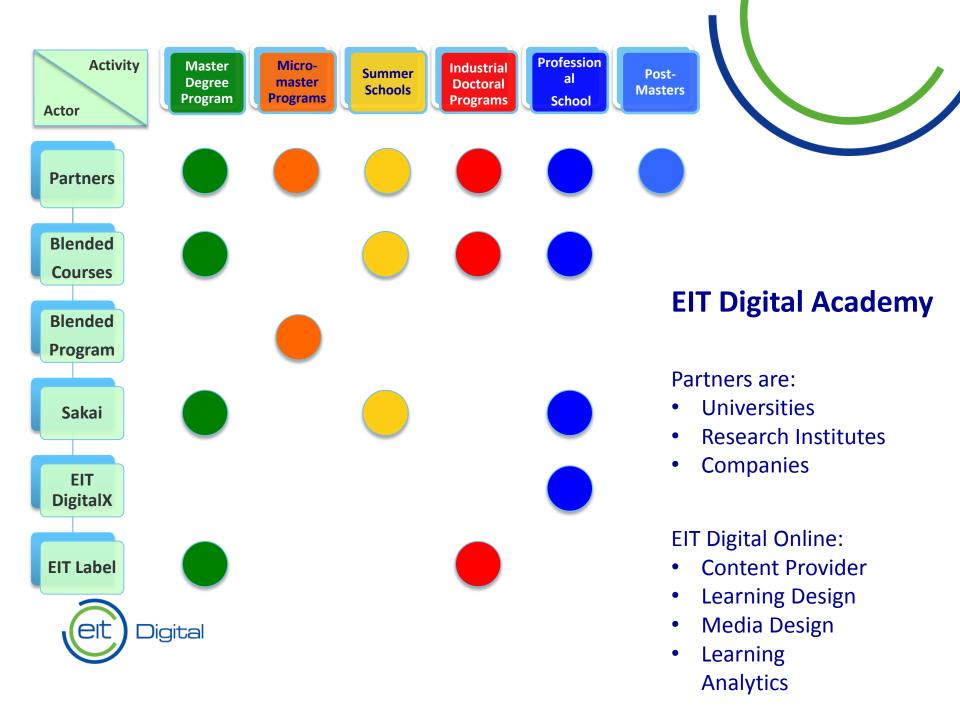
...is to do things on your own

The only way to collaborate...

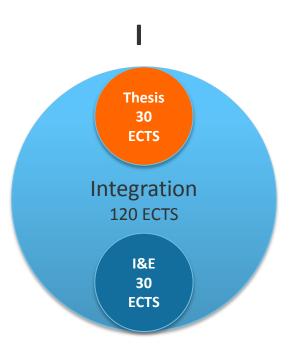
...is to NOT do things on your own

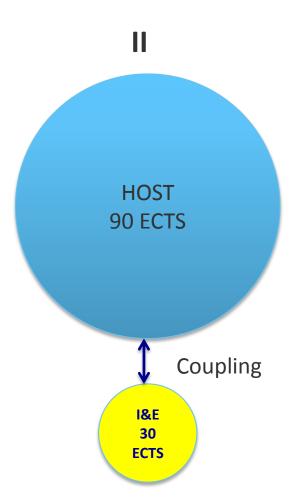
Education Triangle: How to create Competence from Knowledge and Skills





ERB (KTI) Integration: EIT Labelling of Master Programmes (Doctoral is analogue)

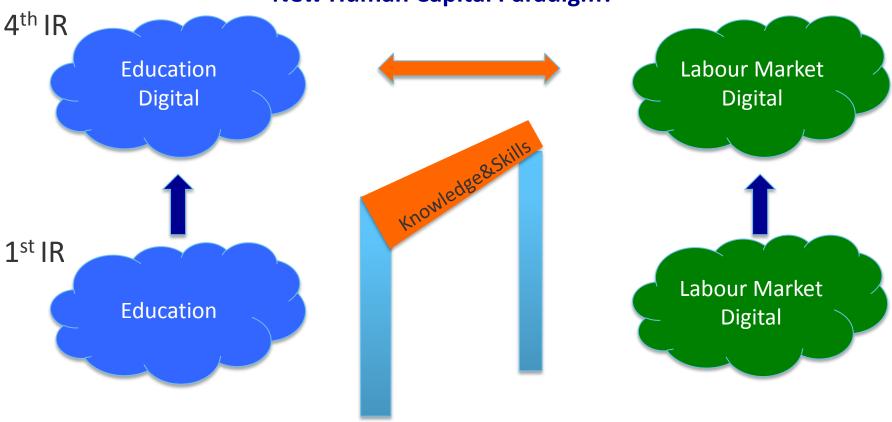






Industrial Revolutions (IR) demand on new Knowledge and Skills

From Professional Roles to Individual Competencies?
New Human Capital Paradigm?

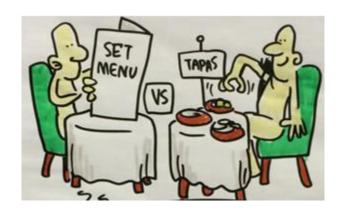


1st IR needed K7 + vocational training 4th IR needs K12 + higher education + digital competencies

The dynamic Evolution of industrial Human Capital towards a blended Model

Fast and focused learning ("tapas") enhance the learners competencies and thus attractiveness. Driven by the gig economy.



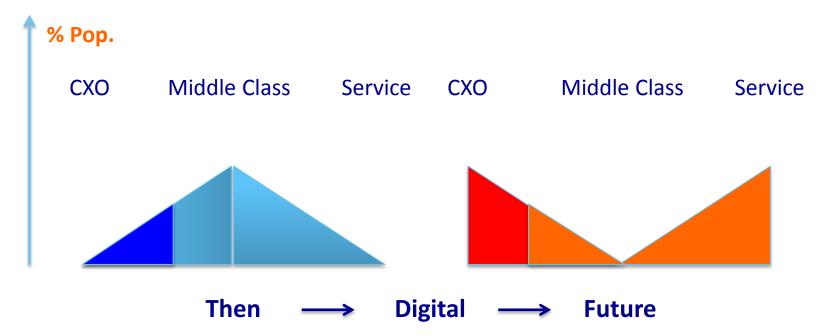


Education today rests on the idea that labour markets build on professional roles and education should match these roles.

Engineer - EIT Digital Engineer (T shape (I&E)) - Career - lifelong Learning

In a "gig" economy, there are no professional roles? Just Competencies! Agile yes! New Paradigm?

Innovation and Jobs?



Master School

Data Science/AI (DS)
Embedded Systems/IoT (ES)
CyberSecurity (S&P)
Human Computer Interaction and Design (HCID)
Software and Service Architecture (SDE)
Digital Media Technology (DMT)
Internet Technology and Architecture (ITA)

Cloud Computing and Services (CCS)

Digital transformer
Digital transformer
Enabler
Digital Transformer Enabler
Enabler
Digital Transformer Enabler
Enabler
Enabler
Enabler
Enabler

iu DC²⁰ The New American Dream



Now everything is coming apart at the seams again. We are building machines that can do the job of human brains, not only the hands. Jobs are disappearing, workers who used to get a monthly pay check are living from one day to the next, "uberized" into commodity. There is a lot of uncertainly. "Trump democrats" are democrats in the rust belt that voted for Trump because he promised them jobs.

Innovation & education integration Centered around Innovation Action Lines



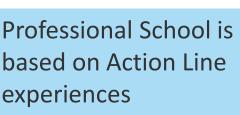
Post Masters work at CLCs in Action Line activities



The Accelerator scaleups are embedded in Action Lines

The industrial Doctoral School program is aligned with Action Lines with PhD students working at CLCs

Summer Schools work on Action Line business cases

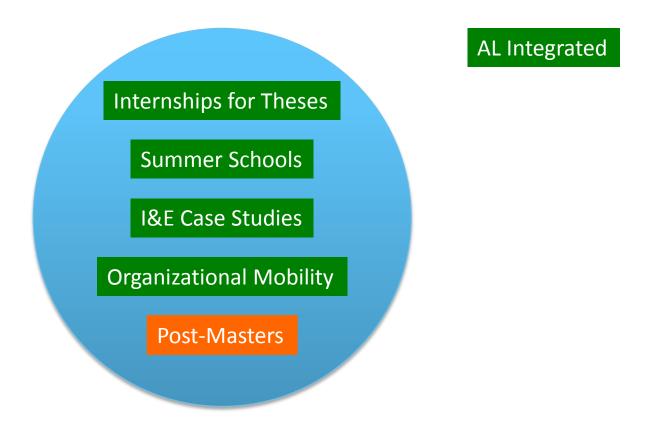






Master students internships are almost to 100% in Action Line activities

Master School Graduates or T shaped Engineers



Doctoral School Graduates or T shaped Researchers

