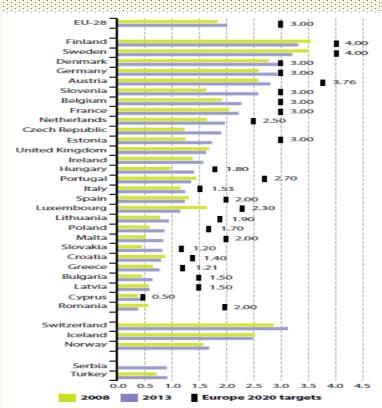


EUROPE HAS A LOT OF POTENTIAL

- INNOVATIVE IDEAS
- LARGE AND DIVERSIFIED COMPANIES AS WELL AS SME'S (ABOUT 24 MILLION)
- Successful entrepreneurs
- GOOD UNIVERSITIES AND OTHER GRADUATE SCHOOLS (>30 IN TOP 100 SHANGHAT RANKING, INCLUDING UK)
- A BIG POTENTIAL EUROPEAN MARKET (+/- 450 MILLION PEOPLE)

BUT

- EUROPE NEEDS TO IMPROVE THE GAP BETWEEN CREATIVITY AND INNOVATIVE PRODUCTS AND SERVICES
- De-industrialization is an issue
- How to curb unemployment?
- How to valorize SME's R&D and creativity?
- How to change attitude towards risk and failure?
- DISPARITY IN EUROPEAN COUNTRIES R&D EFFICIENCY



(*) 2011 data (instead of 2013) for IS, 2012 data (instead of 2013) for IE, CH, RS and TR; 2008 data are estimates for EL, AT, SE and UK, 2013 data are estimates or provisional for all countries except HR, HU, PL, RO, SK and FI; break in series for FR (2010) and for NL, RO, SI and IS (2011).

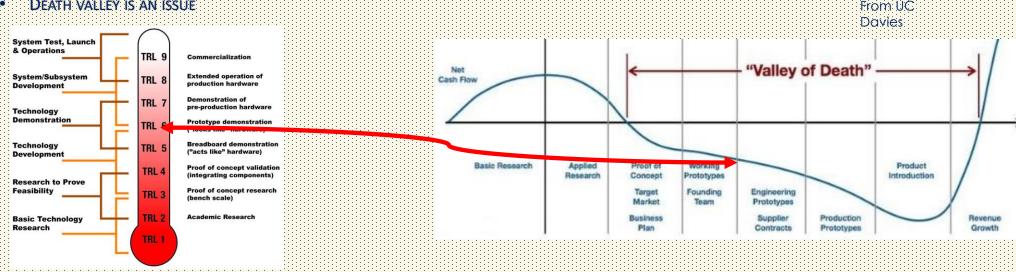
National targets: CZ: 1 % (public sector only), IE: approximately 2 % (2.5 % of GNP), LU: 2.3–2.6 %, PT: 2.7–3.3 %, UK: no target.



Eurocase

Technological innovation and start-ups: the European Union support

- EU HAS FEWER AND LESS R&D-INTENSIVE "YOLLIES" THAN US (*)
- ON 160 "UNICORNS" COMPANIES (START-UP VALORIZED AT MORE THAN 1 BILLION USD) SINCE 2012: USA(122), CHINA (92), INDIA (65), UK (31), Israel (18), Canada (17), South Korea (15), Brazil (12), France (12), Germany (12), Sweden (10), Switzerland (7), Indonesia (7), Australia (6), Singapore (6), Japan (6), Hong Kong (5), Portugal (4), Mexico (3), ...
- DEATH VALLEY IS AN ISSUE



(*) YOUNG LEADING INNOVATORS, E.G. AMAZON, APPLE, GOOGLE, MICROSOFT, TESLA, UBER, FACEBOOK,...



EU HORIZON EUROPE (2021-2027): BIG BUDGET: 95.5 BILLION €

BUT

« IT'S NOT HOW BIG YOU MAKE IT BUT HOW YOU MAKE IT BIG »: EFFICIENCY?

- ROOM FOR IMPROVEMENT?
 - ORGANIZATIONAL CHART OF EU R&D DIRECTORATE IS A COMPLEX STRUCTURE (BATTLESHIP MANAGEMENT) WITH MANY DIFFERENT ENTITIES (JRC, EIT, EIC, ERA, ERC,...)
 - PILLAR 3 IS INNOVATIVE EUROPE (STIMULATING MARKET CREATING BREAKTHROUGHS AND ECOSYSTEMS FOR INNOVATION) AND
 ENCOMPASSES 2 ENTITIES, EIC AND EIT LINKED BY A MOU
 - EIC DEPENDS ON DIRECTORATE R&D. AND SUPPORTS R&D FROM EARLY STAGE TO SCALE UP OF INNOVATIVE START-UPS AND SME'S AND ENCOMPASSES
 - EIC PATHFINDER: GRANTS FORM EARLY TECHNOLOGY TO PROOF OF CONCEPT (TRL 3-4)
 - EIC ACCELERATOR: GRANTS FOR SINGLE SMES AND START-UPS
 - EIC TRANSITION: GRANTS FROM PROOF OF CONCEPT TO PRE-COMMERCIAL
 - BUSINESS ACCELERATION SERVICES



EIT DEPENDS ON DIRECTORATE EDUCATION AND CULTURE

EIT DRIVES INNOVATION BY BRINGING TOGETHER BUSINESS, EDUCATION AND RESEARCH TO FIND SOLUTIONS FOR GLOBAL CHALLENGES

Question: Overlap EIT versus EIC or complementarity?

EU COMMISSION SAYS COMPLEMENTARITY BUT...THE MACHINERY IS COMPLEX AND BUREAUCRATIC

- PROCEDURE FOR PROJECT PARTICIPATION
 - HAS BEEN SIMPLIFIED BUT STILL A HIGH BURDEN FOR SME'S (LARGE COMPANIES HAVE DEDICATED STAFF)
 - LONG DELAYS FOR DECISION AND FOR GRANT, IF SUCCESSFUL, ARE A DETERRENT FOR SME'S
- A COMPREHENSIVE STUDY WAS COMMISSIONED BY EU TO ANALYZE R&D & INNOVATION EFFICIENCY (ENIRI STUDY BY BIRD AND BIRD, 2017)
 - Eniri study compared, a.o., public RDI support un the EU and 9 other countries (Australia, Brazil, Canada, China, India, Japan, Russia, South-Korea and USA)



ENIRI STUDY CONCLUSIONS

- EU PUBLIC RDI SUPPORT IS LESS EFFICIENT IN EU THAN JAPAN, S-KOREA AND USA BECAUSE OF COMPLEXITY OF EU RULES, THEIR
 IMPLEMENTATION AND LONG DURATION OF EU APPROVAL PROCESS
- EU STATE AID RULES DO NOT TAKE INTO ACCOUNT THE SPECIFIC CHALLENGES AND NEEDS OF SME'S AND PROVIDE INSUFFICIENT INCENTIVES FOR COLLABORATION BETWEEN SME'S, UNIVERSITIES AND RESEARCH CENTERS OF RTO'S (RESEARCH AND TECHNOLOGY ORGANIZATIONS)
- Transparency requirement (NOT REQUESTED IN NON EU COUNTRIES) IS A DETERRENT FOR MANY SINCE IT PROVIDES COMPETITORS WITH
 SENSITIVE INFORMATION ON THE RESEARCH UNDERTAKEN BY THE BENEFICIARY
- THE PRESUMPTION THAT AID DISTORTS COMPETITION MAY NOT BE APPROPRIATE FOR RDI AND LEAVES START-UPS AND SME'S ALONE WHEN THEY
 NEED FINANCIAL HELP MOST, I.E. SCALING UP AT TRL 5-7 (DEVELOPPING, ENGINEERING AND PRODUCING PROTOTYPES)

NB: 27 Jul 2021 | News: More money for research as EU adopts long-awaited state aid exemptions

"We are also introducing more possibilities for member states to provide state aid to support the twin transition to a green and digital economy without the need of a prior notification procedure, while at the same time not causing undue distortions of competition in the single market," said Commission executive vice-president Margrethe Vestager.

According to the Commission, the relaxed rules will prevent delays and remove accounting bottlenecks in the rollout of research, development and innovation projects in the 2021-27 EU budget. (Limited to SME's and some others)

HOW EFFECTIVE? TIME WILL TELL



- MAIN RECOMMANDATIONS FROM ENIRI STUDY
 - LIMITING SCOPE OF TRANSPARENCY REQUIREMENT
 - SHORTENING AND SIMPLIFYING APPROVAL PROCESS (5 MONTHS MAX FOR « SERIOUS ISSUES »)
 - Transferring power to approve support for RDI under the EU state aid rules, from DG competition to DG Research and INNOVATION
 - EXPANDING THE NOTION OF « IMPORTANT PROGRAMMES OF COMMON EUROPEAN INTEREST »
- More generally (cf. Report « a robust innovation ecosystem for the future of Europe, report on the results of the stakeholder consultation of October 2019-February 2020 »)
 - EU wants and needs an efficient ECOSYSTEM, what means different stakeholders, entities and conditions:
 - * START-UPS, INVESTORS, CORPORATES, SME'S, UNIVERSITIES, RTO'S, REGIONS, CITIES, NATIONAL INNOVATION AGENCIES
 - Key issues are competence, talent, connectedness of stakeholders across borders and capital.
 - CONNECTEDNESS IN EU IS JEOPARDIZED BY THE CURRENT REGULATORY BURDEN -> NEED FOR SIMPLIFICATION AND FLEXIBILITY IN ORDER TO DECREASE THE WARRACTION COSTS ->



- For improving the EU ecosystem: A MORE BOTTOM UP SYSTEM VERSUS THE CURRENT TOP DOWN EU MODEL
- A NEW KIND OF SYMBIOTIC ECOSYSTEM, SHORTENING SOCIAL DISTANCE, LIMITING « TRANSACTION COST », BREAKING UP HIERARCHIES
 AND BUREAUCRACY, PROMOTING EASY AND QUICK CONNECTIONS: A DYNAMIC AND FLEXIBLE NETWORK TO ALLOW EMERGENCE,
 BIFURCATION AND SEIZE OPPORTUNITIES
 - Decreasing the number of programmes currently eligible and open up for researchers ingenuity and creativity to come up with new projects
 - More financial support for research infrastructure in European universities
 - INCREASE SUPPORT FOR INTERNATIONAL COLLABORATION FOR RESEARCHERS
 - PROMOTE STEM STUDIES AND CAREERS FOR THE YOUNGER GENERATIONS



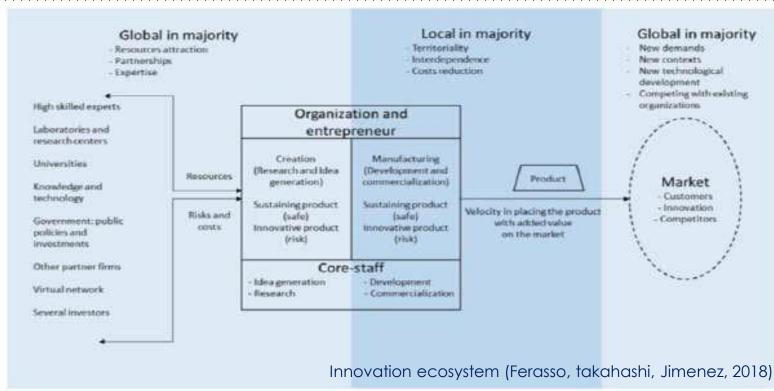
- FOR IMPROVING THE EU ECOSYSTEM: A MORE BOTTOM UP SYSTEM VERSUS THE CURRENT TOP DOWN EU MODEL
 - CAMPAIGN FOR A POSITIVE IMAGE OF RESPONSIBLE RESEARCH AND INNOVATION AS A VECTOR TOWARDS UN 17 SUSTAINABLE
 DEVELOPMENT GOALS
 - SIMPLIFY AND CLARIFY STRUCTURE OF DG RESEARCH AND INNOVATION, AVOIDING OVERLAPS AND UNNECESSARY COMPLEXITY
 - Upgrade state aid rules to stimulate more cooperation between SME's, Universities and RTO's
 - LIMIT SCOPE OF TRANSPARENCY REQUIREMENT CURRENTLY HARMING BENEFICIARIES
 - SHORTEN AND SIMPLIFY PROJECT APPROVAL PROCESS (<5 MONTHS)



- How to do it?
 - OPTION 1: STARTING WITH SOME OF THE EXISTING RESSOURCES?
 - INDUSTRY (ERT: https://ert.eu/): FORUM FOR CEOs AND CHAIRS OF >55 LEADING COMPANIES OF EUROPEAN PARENTAGE IN THE INDUSTRIAL AND TECHNOLOGICAL SECTOR
 - INDUSTRIAL RESEARCH (EIRMA: WWW.EIRMA.ORG)
 - Universities (EUA: https://eua.eu/): >800 European universities
 - RTO's (EARTO: https://www.earto.eu/): 350 RTO's in 23 countries
 - 38 MAJOR EUROPEAN RESEARCH PUBLIC ORGANISATIONS (SCIENCE EUROPE: HTTPS://WWW.SCIENCEEUROPE.ORG/)



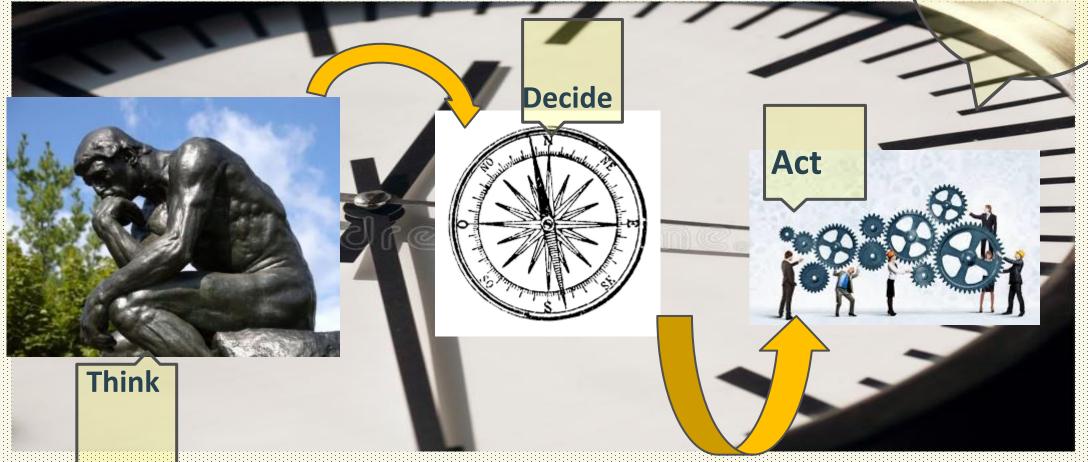
•OR OPTION 2: FROM SCRATCH, with Business angels and VC's, R&D technological parks, large companies, sme's, government, laboratories, universities and...with the rightmodel!



OR combination options 1+2



Timing is essential



Eurocase

D.M. Judkiewicz

10/09/2021