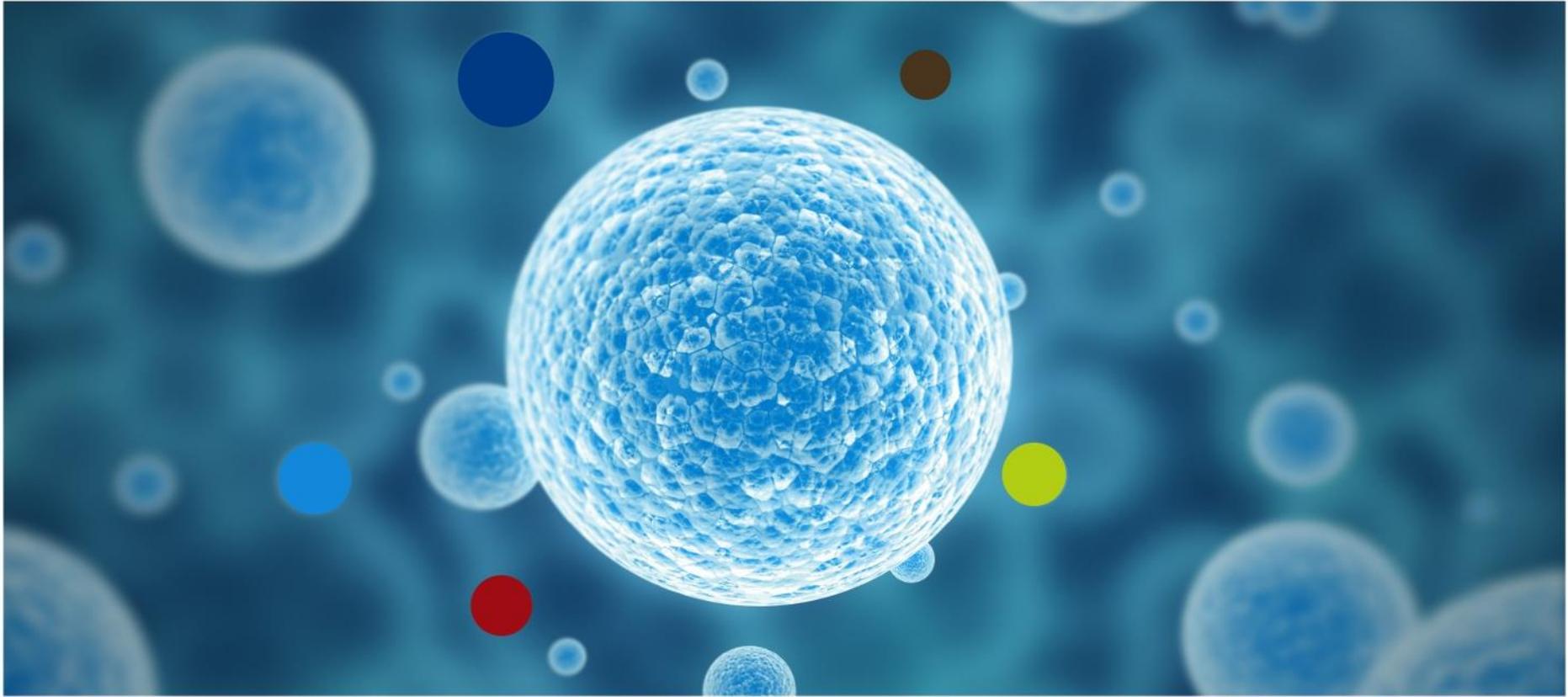


A sustainable European Bank for induced pluripotent Stem Cells



The EBISC2 project has received funding from the Innovative Medicines Initiative 2 Joint Undertaking (JU) under grant agreement No 821362. The JU receives support from the European Union's Horizon 2020 research and innovation programme and EFPIA.



innovative
medicines
initiative

EBiSC: Sustainability of iPSC resources

Speaker: Rachel Steeg, Fraunhofer UK

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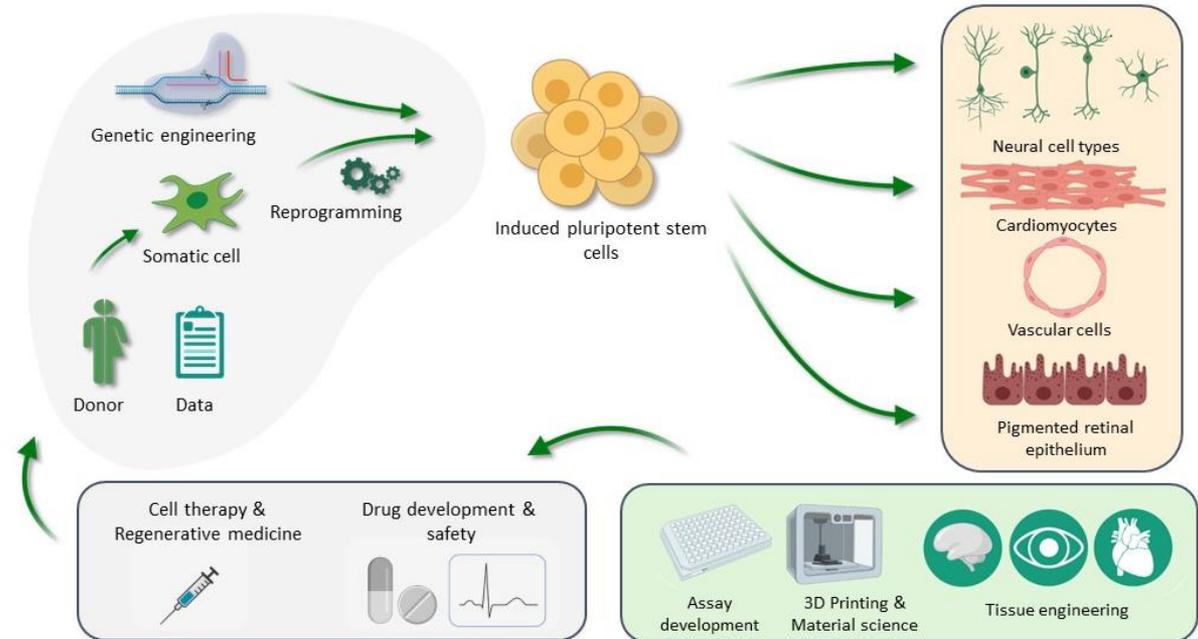
Induced Pluripotent Stem Cells

🧬 iPSCs are derived :

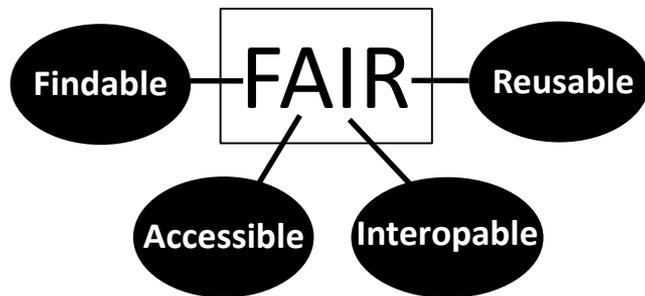
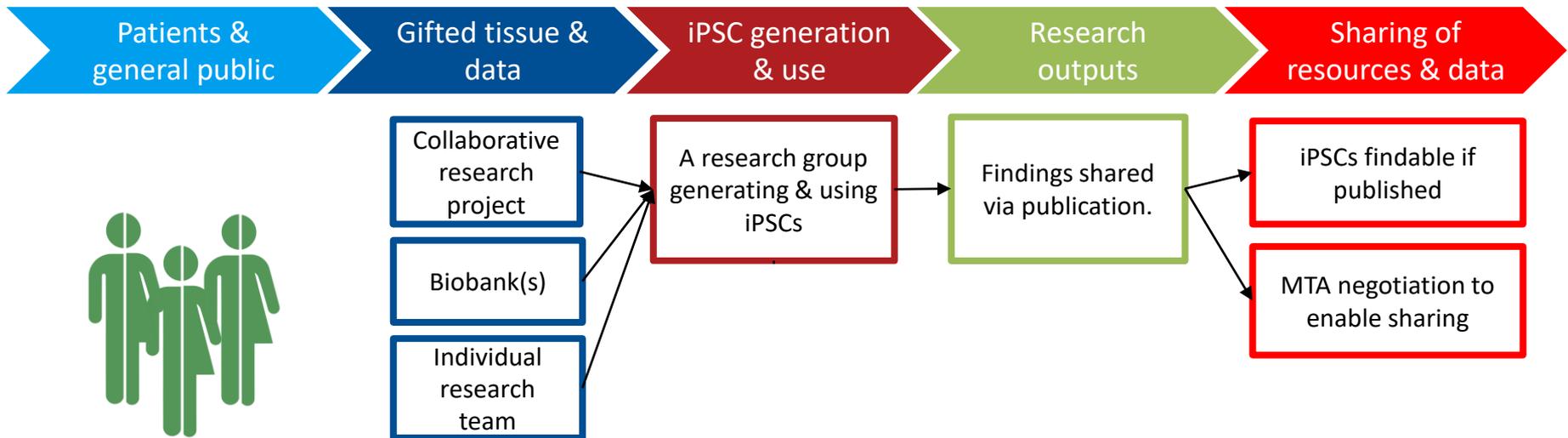
- from donated samples
- under clear and fully informed consent
- from known disease / genetic backgrounds

🧬 iPSCs can be used:

- to form specific cell types/ tissues
- to research diseases and basic biology

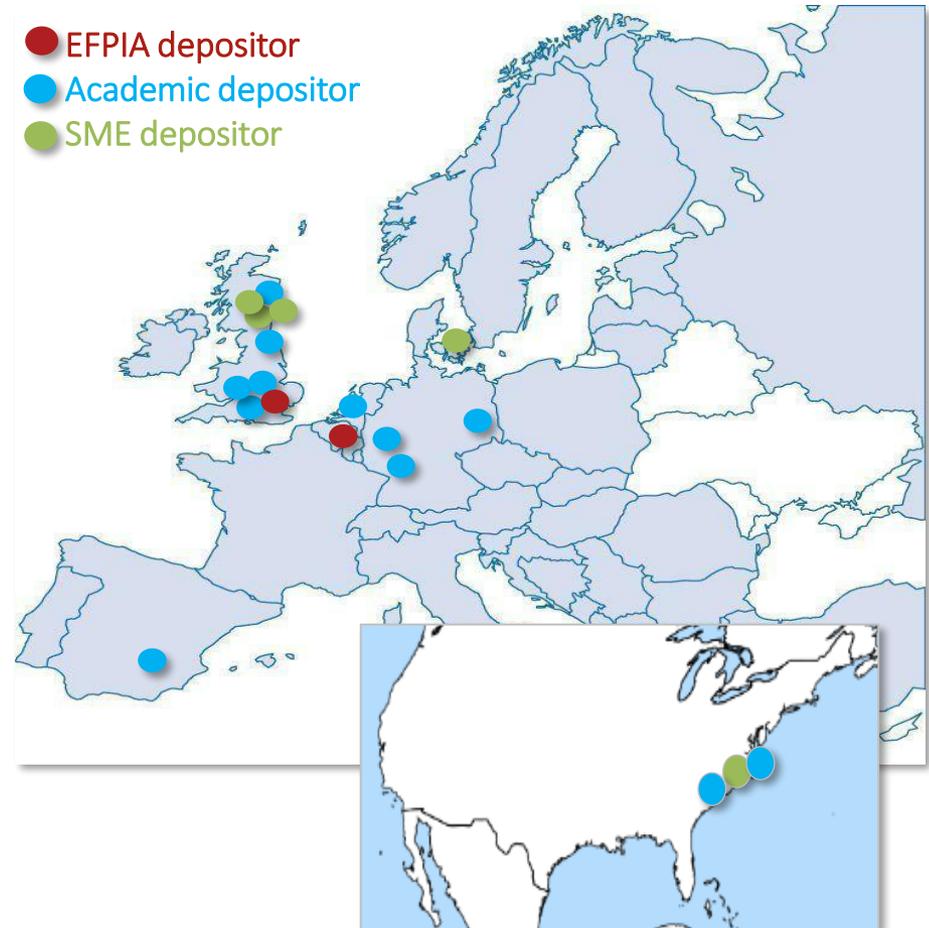


EBiSC: A centralised repository for iPSC tools and data



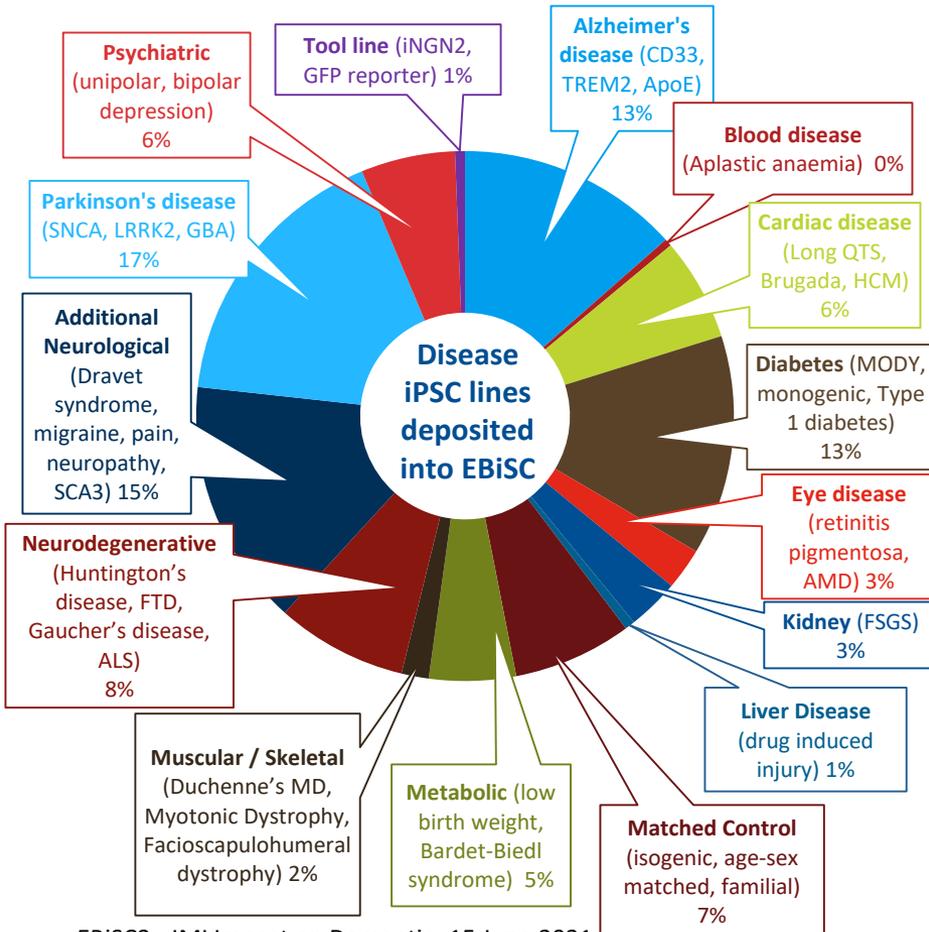
EBISC iPSC lines are from multiple sources...

- ❖ EBISC iPSC lines deposited by research groups internationally
 - >900 iPSC lines
 - Samples from >30 different clinical studies
 - >20 different depositing institutions
 - Academic, SME and EFPIA depositors
 - European and American depositors to date
 - Publicly funded research projects including ADAPTED, StemBANCC and HipSci.



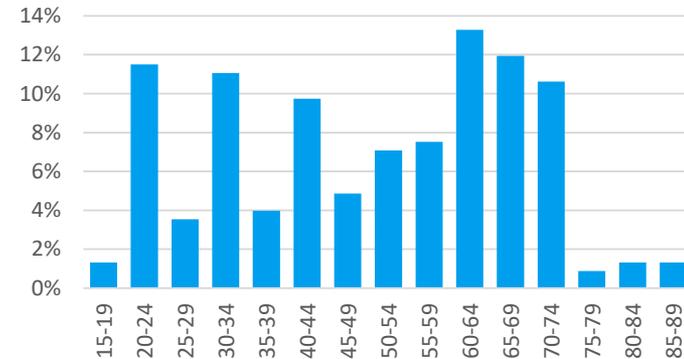
...acting as biological models for individuals from diverse backgrounds.

Disease associated iPSC lines

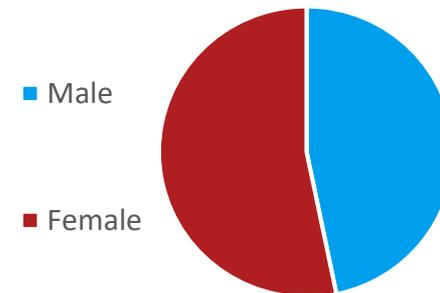


Healthy 'control' iPSC lines

Age range of donated samples



Biological sex



- EBiSC engagement allowed ADAPTED a ‘Hot-start’ for an IMI project by fast tracking cell line generation
- First and only full sets of isogenic lines carrying all variants of APOE + APOE KO described so far

Contents lists available at [ScienceDirect](#)

Stem Cell Research

journal homepage: www.elsevier.com/locate/scr

Lab Resource: Multiple Cell Lines

Generation of a set of isogenic, gene-edited iPSC lines homozygous for all main APOE variants and an APOE knock-out line

Benjamin Schmid^{a,*}, Koenig B. Prehn^a, Natascha Nimmannit^{a,d}, Blanca Inesa Aldana Garcia^e, Ulla Poulser^b, Sarayu Ram^c, Andreas Ebner^d

Contents lists available at [ScienceDirect](#)

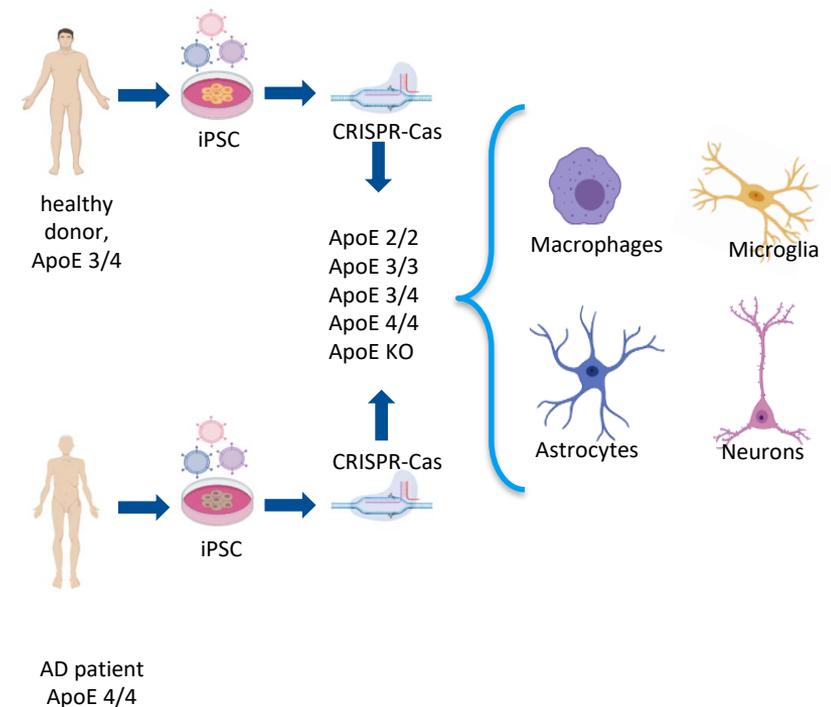
Stem Cell Research

journal homepage: www.elsevier.com/locate/scr

Lab Resource: Multiple Cell Lines

Generation of a set of isogenic iPSC lines carrying all APOE genetic variants (ε2/ε3/ε4) and knock-out for the study of APOE biology in health and disease

Benjamin Schmid^a, Bjørn Holst^a, Christian Clausen^a, Lamiaa Bahnassawy^b, Peter Reinhardt^b, Margot H.M. Bakker^b, Eva Díaz-Guerra^c, Carlos Vicario^c, Pamela V. Martino-Adami^d, Michaela Thoenes^d, Alfredo Ramirez^{d,e,f}, Klaus Flissbach^e, Clara Grezella^g, Oliver Brüstle^g, Michael Peitz^g, Andreas Ebner^{h,i}, Alfredo Cabrera-Socorro^{h,*}



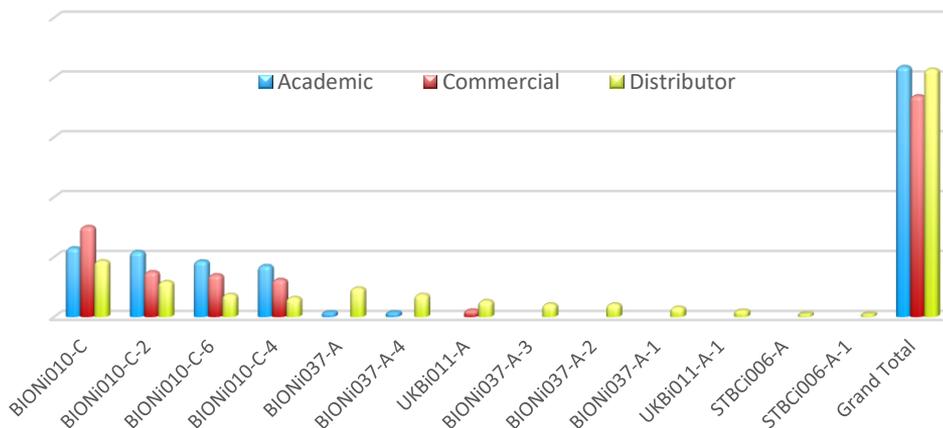


Global impact of IMI-ADAPTED: *not feasible without EBiSC*

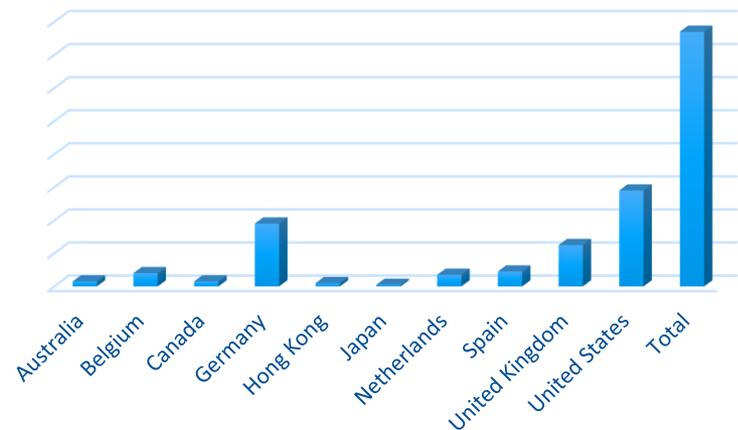


- 🌐 Total number of vials supplied world-wide 2016-2021: **XXX**
- 🌐 Total revenue generated 2016-2021: **XXX.XXX**
- 🌐 Comparable impact in academic and commercial R&D centers
- 🌐 Worldwide impact, with increasing demand

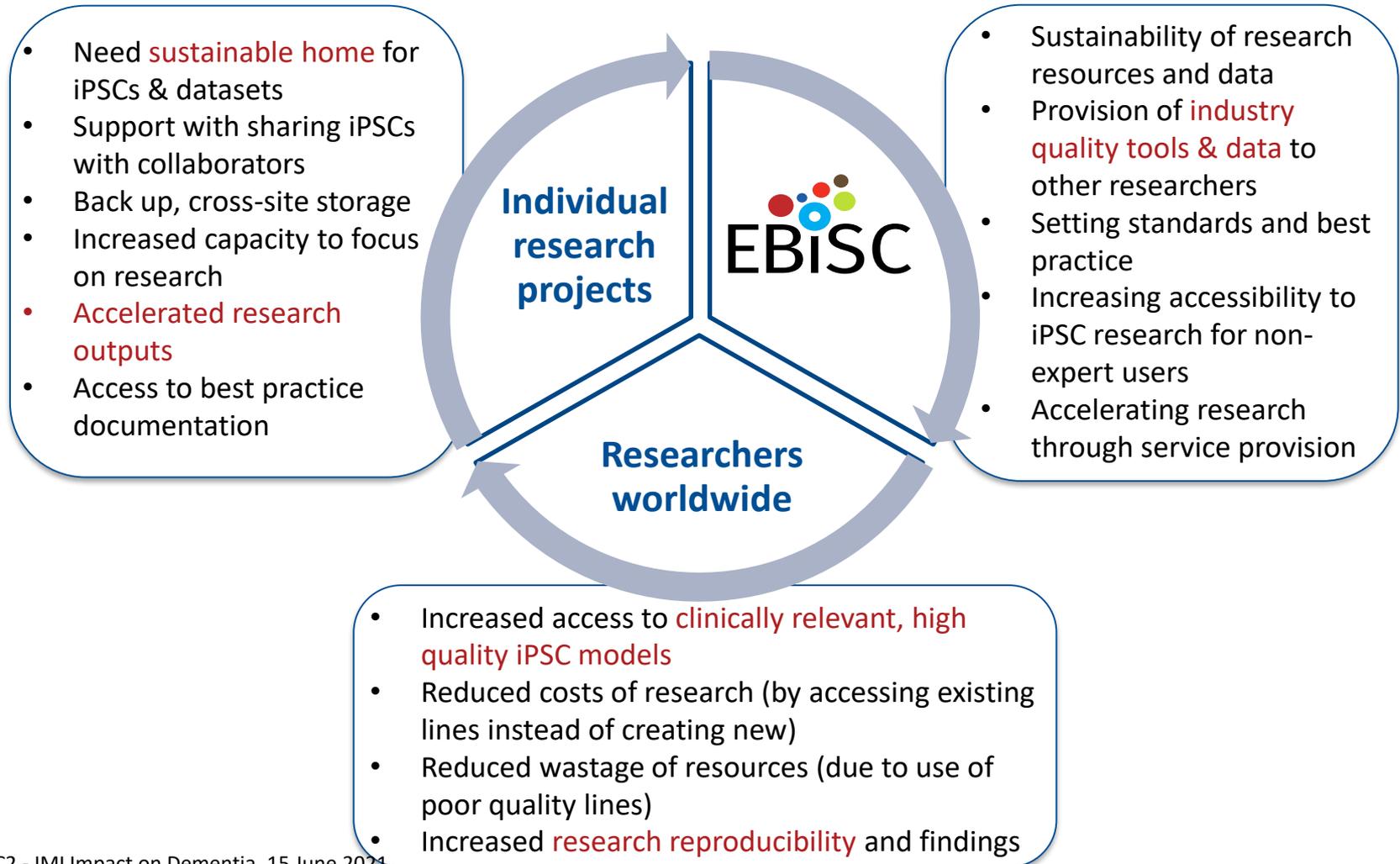
ADAPTED iPSC lines: EBiSC Sales 2016-2021 (in €)



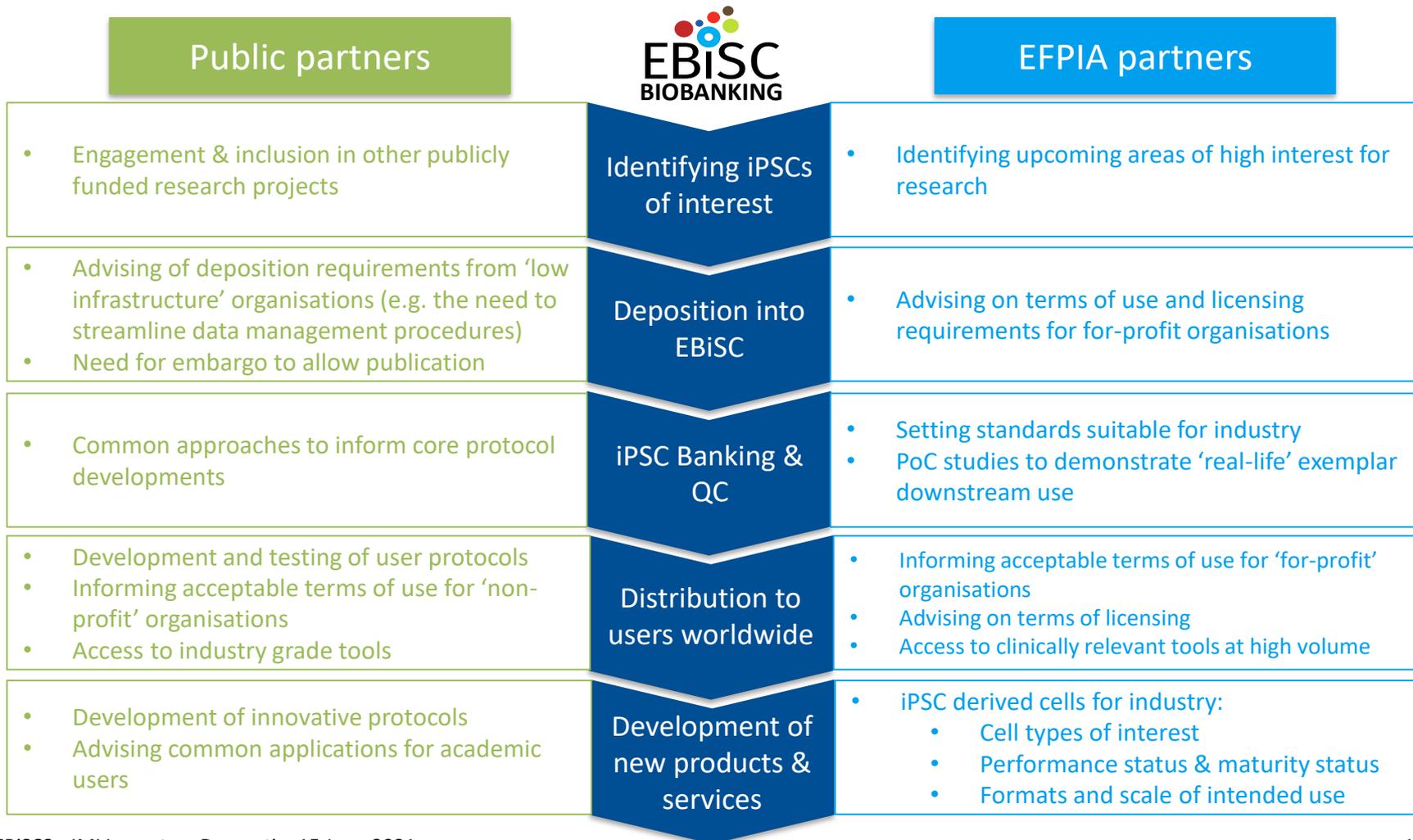
Geographic Distribution (# vials)

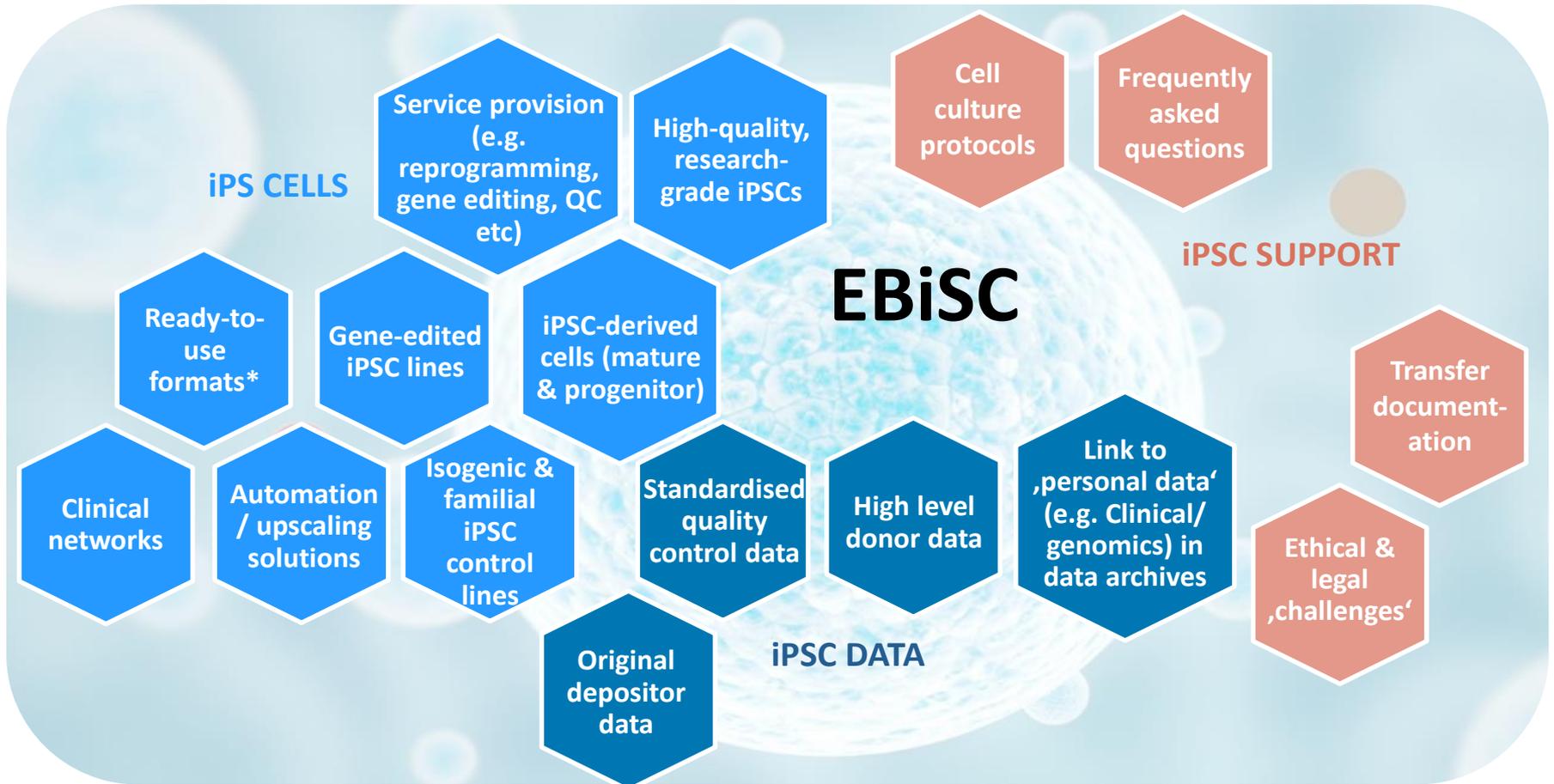


Impact of EBISC on global iPSC research



Impact as a Public-Private Partnership







MAKING IPSC TOOLS FINDABLE,
ACCESSIBLE AND REUSABLE FOR ALL
RESEARCHERS, IMPROVING
SUSTAINABILITY, REPRODUCIBILITY
AND ACCELERATING RESEARCH
OUTPUTS.

A sustainable European Bank for induced pluripotent Stem Cells



Thank you to all EBiSC2 project partners.

Thank you for your attention!

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