

Innovation from the Big Science area

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Uddannelses- og
Forskningsministeriet
—
Styrelsen for Forskning
og Uddannelse



**TEKNOLOGISK
INSTITUT**



Danmarks
Tekniske Universitet

Industrial Liaison Officer – link between Big Science and Danish companies



Henrik Bak Jeppesen
ILO for ESO, CERN & ESRF



Arne Jensen
ILO for ESS



Søren Bang Korsholm
ILO for F4E (ITER)



Nikolaj Zangenberg
ILO for CERN, ESRF & European-XFEL



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Big Science is moving to Denmark...

ESS som drivkraft for fremtidens vækst

Strategi for den danske ESS-indsats 2.0

Juni 2020



ESS – European Spallation Source

BigScience.dk – helping companies engage with Big Science

Vision 2024: Danish companies will bring home contracts from Big Science worth DKK 180 mio pr. year (CHF 26,5 mio) – including DKK 100 mio. from ESS.

Main activities:



BigScience.dk 10-year anniversary 2020

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CERN

"As an ILO function they punch well above their own weight"

- Anders Unnervik, indkøbschef, CERN



CERN arbejder med grundforskning inden for partikelfysik ved studier af kolliderende højenergipartikelstråler. CERN finansieres af 20 medlemslande, der betaler et bidrag proportionelt med deres BNP. Med konstruktionen af LHC (Large Hadron Collider, operationel fra 2011) kan kollisioner mellem protoner eller blyioner med energier op til 7 tera-elektronvolt studeres. Partikler trækkes desuden ud i diverse andre testfaciliteter og bruges af besøgende forskere til studier af materialer og strukturer på atomart niveau og til kerneforskning.



*Interview med
Anders Unnervik
indkøbschef, CERN*



CERN works with fundamental research within particle physics by studying colliding high-energy particle beams. The beams are directed to test facilities, where materials and structures on the atomic level are examined.

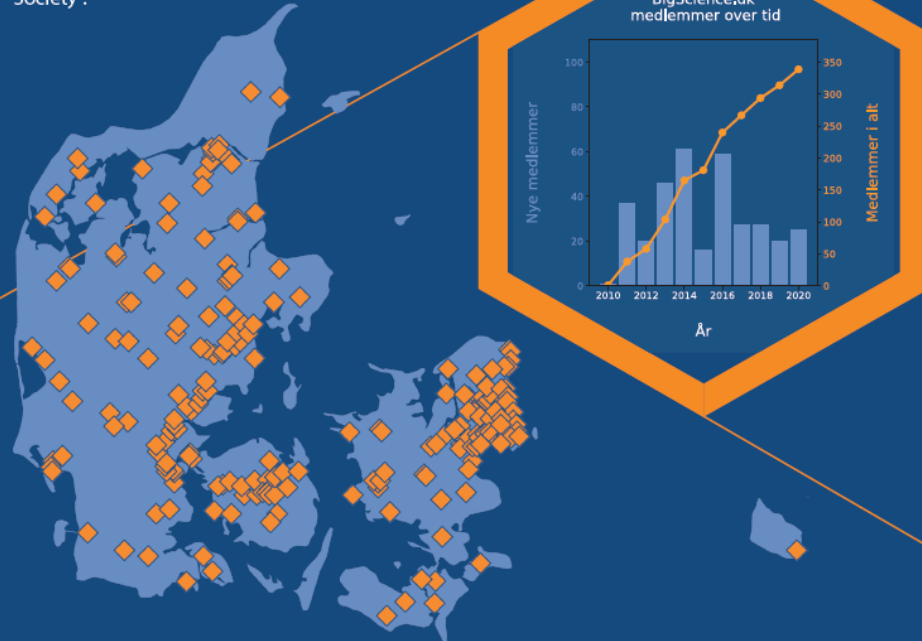


BigScience.dk 10-year anniversary 2020

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BigScience.dk-netværket

På kortet ses, hvordan medlemmerne er spredt i hele landet, og grafen viser netværkets vækst i perioden 2010-2020. Udviklingen er gået særligt hurtigt i årene med ekstra ressourcer 2013-2014 via Vækstmotorprojektet og i 2016 via Interregprojektet "ESS & MAX IV Crossborder Science and Society".



BigScience.dk's member activities

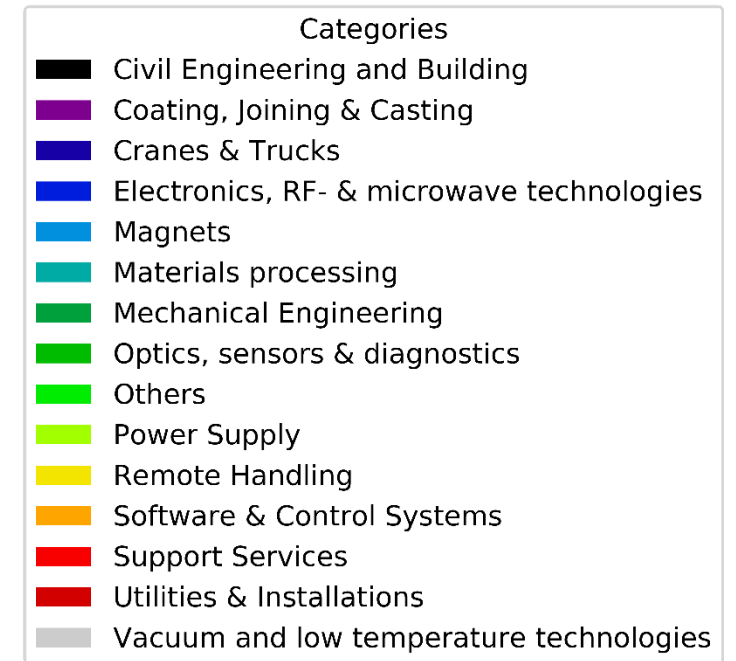
Categories across members and tenders



Members



Tenders



BigScience.dk - helping develop Danish companies using Big Science

- ▶ Facilitate innovation in DK companies
- ▶ Technology matching; setting up R&D collaborations
- ▶ Offer technical knowledge to companies
- ▶ Enable Danish technical students to go to Big Science organisations
- ▶ Training of company staff to meet Big Science requirements



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