

# Engagement with a dream:

Designing a public engagement strategy for a facility with no science (yet!)

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Communications and Public Engagement



# A European Organisation for Science

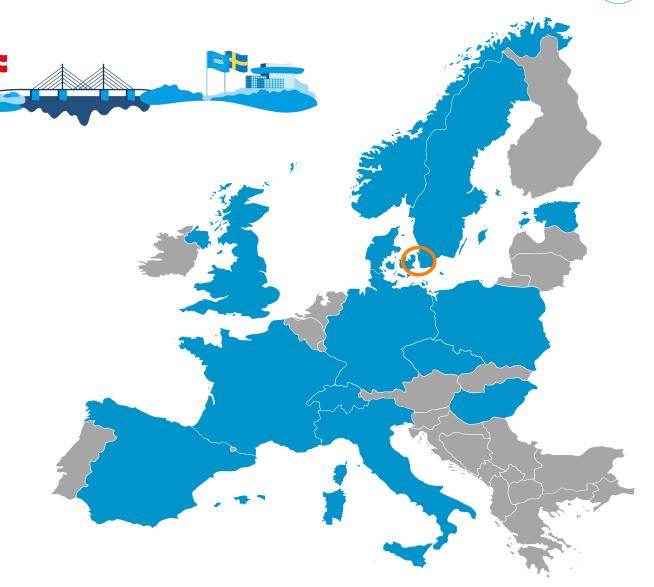


#### Host States:

Sweden and Denmark

#### Member States:

Czech Republic, Denmark, Estonia, France, Germany, Hungary, Italy, Norway, Poland, Spain, Sweden, Switzerland and the United Kingdom



# Europe's future neutron source for research





- > An neutron source
- > A user facility with 2000 users per year
- ➤ ESFRI Landmark Project
- > Still under construction
- ➤ Construction costs **€1.84 billion**



#### Research areas

- Chemistry of Materials,
   Magnetic & Electronic Phenomena
- Engineering Materials, Fast Neutron Applications, Geosciences, Archeology & Heritage Conservation
- Life Science, Soft Condensed Matter
- Rarticle Physics





# We are already implementing our Public Engagement strategy



To be a trusted collaboration partner on major science engagement projects, sharing ideas about ESS's contribution to 21st century research with people all over Europe

This strategy covers from 2021 until

First Science



# Why engage the public at this time?





- Bring people along a journey
- > Build a sense of trust, ownership and support
- Inspire a generation of scientists, engineers and future users





# An engagement journey











- **≻**Interest
- **≻**Inspiration
- **≻**Excitement

- **≻**Trust
- **≻**Ownership
- **>**Support

# What are the key strategic priorities?



Inspire 11-19 year olds in science and STEM subjects



Empower educators to use contemporary research in their teaching



Create cultural interactions between public and research



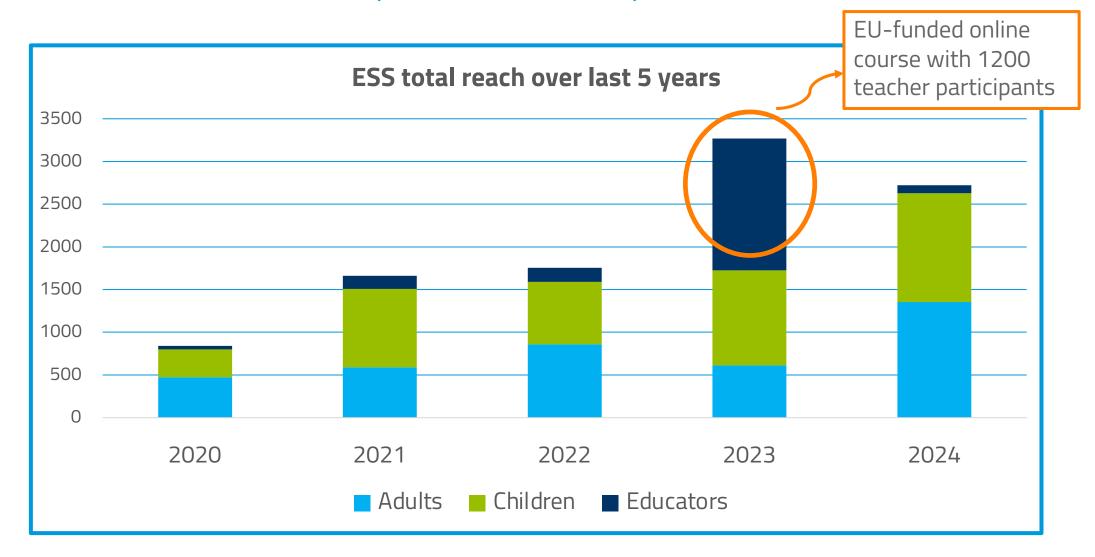
Collaborate with key regional, national and international partners

Develop processes for implementation within ESS

# ESS Public Engagement



Achievements 2020-2024 (Audiences over time)





## Collaboration to reach new audiences



Goal: Use RI unique assets to help address a challenge highlighted by partners

#### **Challenge: Support teachers to**

- 1. Bring to life topics like forces, magnetism, electromagnetic spectrum, atomic structure
- 2. Increase their knowledge of contemporary research to make it relevant and exciting
- 3. Stimulate students' skills:
  - Analytical and critical thinking
  - Collaboration and communication
  - Active participation

#### RI assets:

- Existing online materials for training non-specialists
- ➤ People with skills and knowledge about the science and technical aspects
- Case studies of real people using high tech to address real-world problems



















# Accelerating Teaching

## Massive Open Online Course (MOOC)





#### https://bit.ly/AT MOOC23





















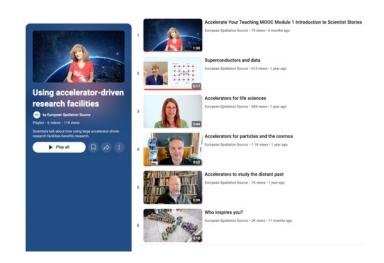




# Pedagogical tools



**Videos of Scientist Stories** 









Classroom game: Race to Space





**Lesson plans** 

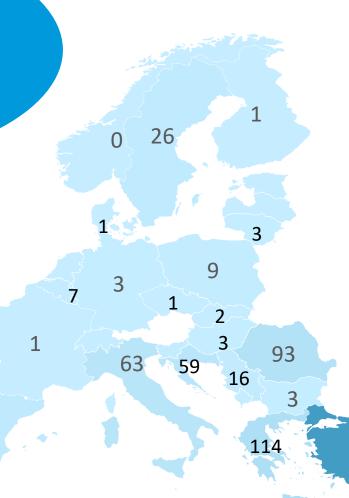


# Evaluation

I'm a Biology teacher. I will use particle accelerators at my lessons: Imaging devices, enzyme crystallography, renewable energy and many more topic are related with my lessons.

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At first I was afraid of not being able to complete the course because it was related to Physics. But every module I enjoyed more!





#### First 4 weeks

2211 people registered75 countries

1293 participated

314 completed the MOOC

**58%** engagement rate

24% completion rate

663



# Case Study:

Developing new processes within ESS

# Developing new processes within ESS

ess

Goal: Pilot a large-scale on-site visit that engages a public audience

# Challenge: Site undergoing large-scale installations

- 1. Safety and security issues of the site
- 2. Timing: must not interfere with larger project plan
- 3. Event on a weekend
- 4. Staff motivation and engagement

#### RI assets:

- Many hands-on activities developed with other projects
- People with skills and knowledge about the science and technical aspects
- Desire to show workplace to their friends and families

2024-11-20 **19** 

# Three High-Impact Events

# ess

# Saturday 24 August Friends and Family event

• 1100 people (of whom 800 were public)



# Saturday 21 September Lund Culture Night

Two events:

#### ESS stand at MAX IV

- 750 people
- mostly families with kids



#### Bus tours round ESS

- 500 people
- Mostly adults



2024-11-20 ESS OPEN DAYS 2024 2005















### Evaluation



#### Friends and Family day

- **Inputs:** 46k Euro ; 110 staff volunteers, 7 paid security staff
- **Outputs**: Branded materials, learning materials, training materials
- Reach: 800 public, 324 staff
- Outcomes: Increase in trust, pride and support of ESS

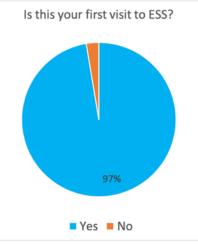
My family and I are so impressed both with ESS and the event.

So proud to have been a part of it.

#### **Lund Culture Night**

- **Inputs:** 1.5k Euro; 10 staff volunteers, 7 paid security staff
- Outputs: \*Branded materials, learning materials, training materials
- Reach: 1250 public
- Outcomes: Increase in awareness, knowledge and interest in ESS





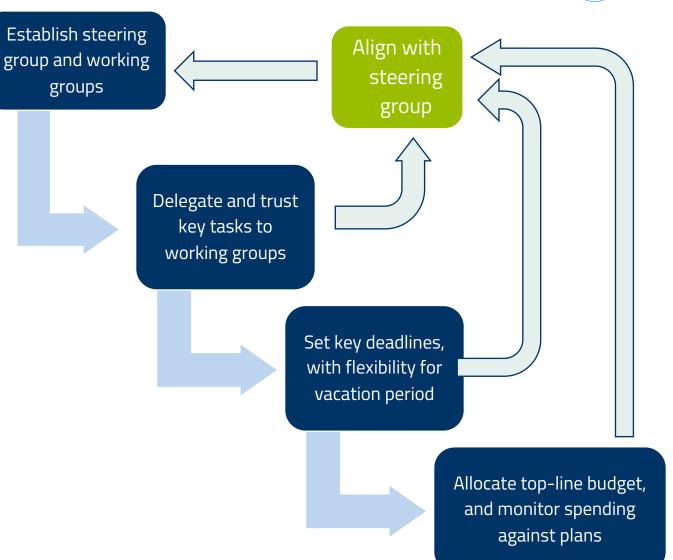
\*Re-used from Friends and Family day

024-11-20 ESS OPEN DAYS 20

# New Processes developed



- 1. Trust-based task delegation with strong steering group
- 2. Strong Project team
- 3. Event booking Software
- 4. Training materials
- 5. Evaluation tools



# OUTCOMES: What was the effect?



When at ESS,
I feel like I am a
part of the
future.

AMAZING! Very glad we got to bring our family! THANK YOU!

What I love about ESS is
that it is all about
experiments and
excitement. I love the place,
it is big and lovely and I am
looking forward to be
working at ESS. Thank you.
Nesma, age 12

It was a lot of fun! It was interesting to see the exhibits about the science and walk along the accelerator tunnel. The food and drink were much appreciated, and it was very well organised.

I have never been to such a big scientific facility - spellbound!

2024-11-20 PRESENTATION TITLE/FOOTER



# Questions and discussion

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DISCOVER

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