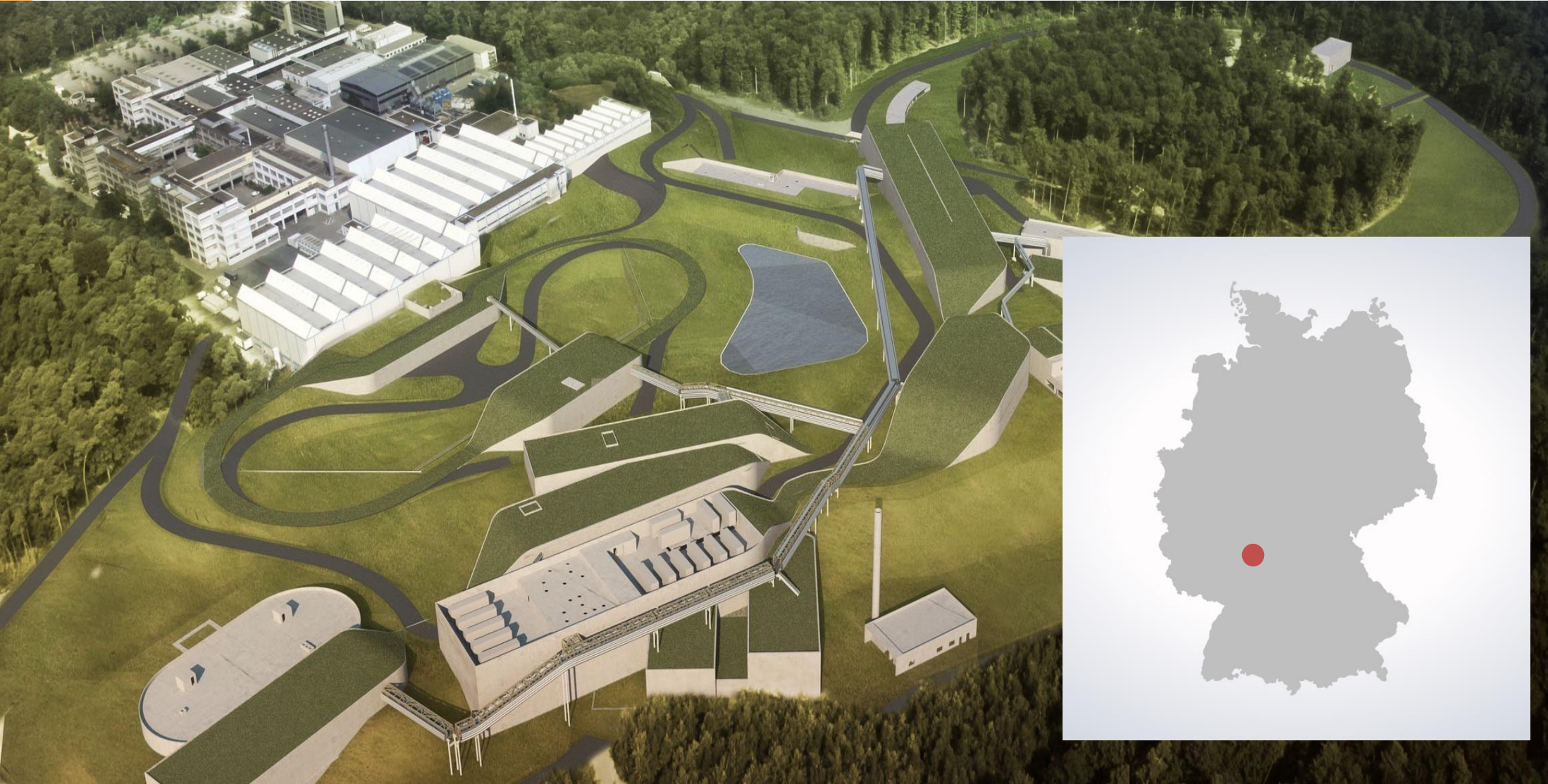
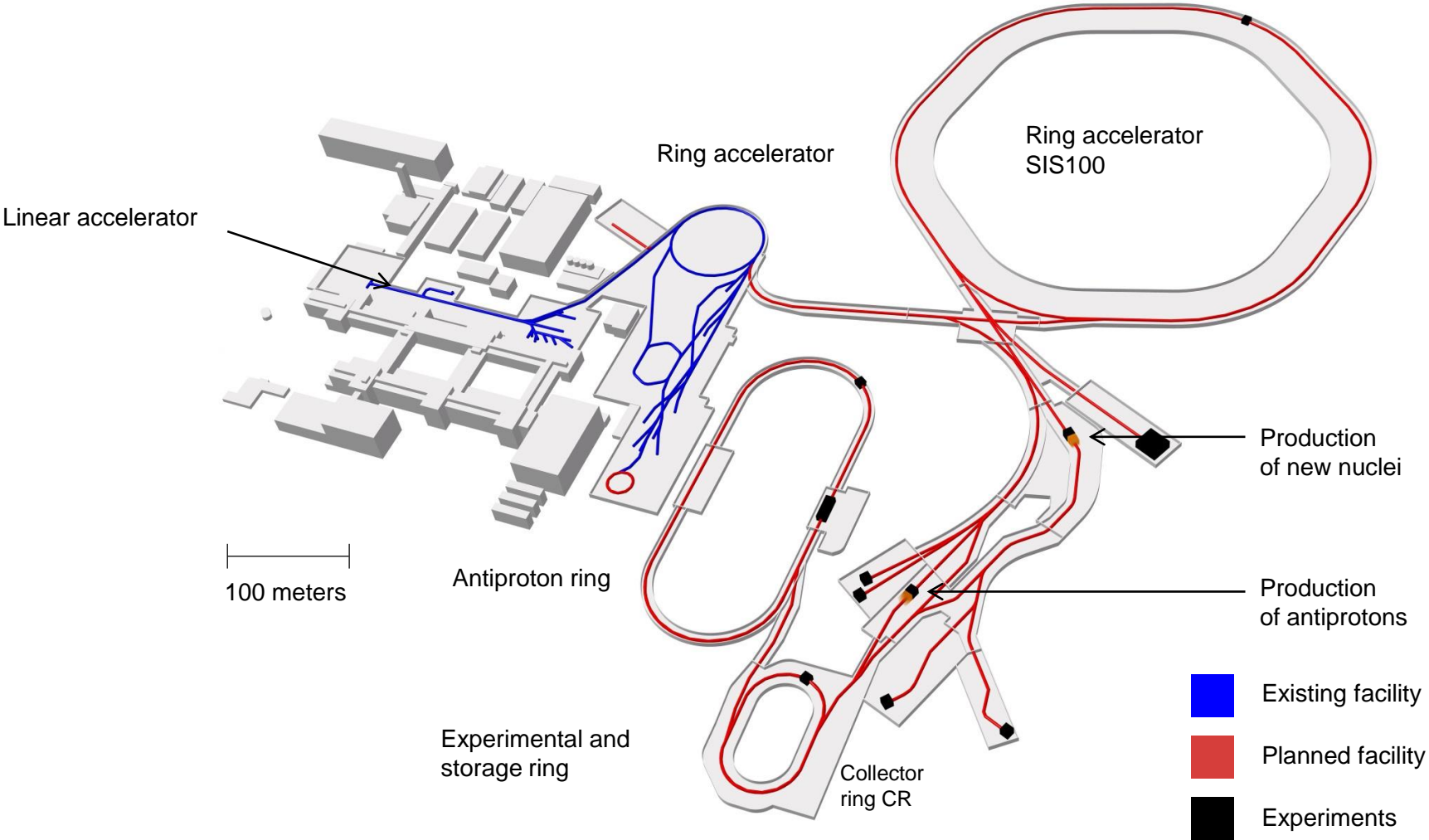


FAIR: the universe in the laboratory

Sonia Utermann
28th April 2021



FAIR – The facility



The four scientific pillars at FAIR

NUSTAR

Nuclear Structure, Astrophysics and
Reactions: Stars and nuclei
(850 scientists)

CBM

Compressed Baryonic Matter:
Inside a neutron star
(500 scientists)

PANDA

Antiproton-Annihilation at Darmstadt:
Antimatter research
(500 scientists)

APPA

Atomic, Plasma Physics and Applications:
From atoms to planets to cancer research
(720 scientists)

The short drone video here

- FAIR is a GmbH (thus subject to German public procurement and state aid law)
- Germany is the majority shareholder (“Gesellschafter”) at 70%
- German shareholder is GSI Helmholtz – host laboratory and operator
- German funding from the federal government (BMBF) and the federal states (mostly Hessen)
- FAIR does not have “juste retour” for shareholders...
- BUT we would like to support the BMBF in seeing German money spent in supporting the German knowledge economy...
- We need more German partners! I will tell you how to make yourself known to us

- Through (innovative supply or design) procurement – accelerator and experiment
- Through in-kind (via GSI and our other shareholders where you have a branch in their country)
- Through our TT opportunities
- And later, as co-researchers and users of beam time ... this will come later, so I won't talk about that today.

e.g. Procurement value 2019:

- 169 M€ worth of tenders
- of which just ~ 1.4 M€ were off-the-shelf

2019 Purchase type	No. tenders national (<221 k€) above 25K€	No. EU tenders (>221 k€)
Without negotiation	102	18
With negotiation	165	24



increasing
degree of R&D or
innovation sought

Functional
specifications:

“It should do x”
-not-
“build it like this”

- Accounts for about half of accelerator procurement
- Where to find FAIR tenders: link at the end

e.g. Procurement value 2019:

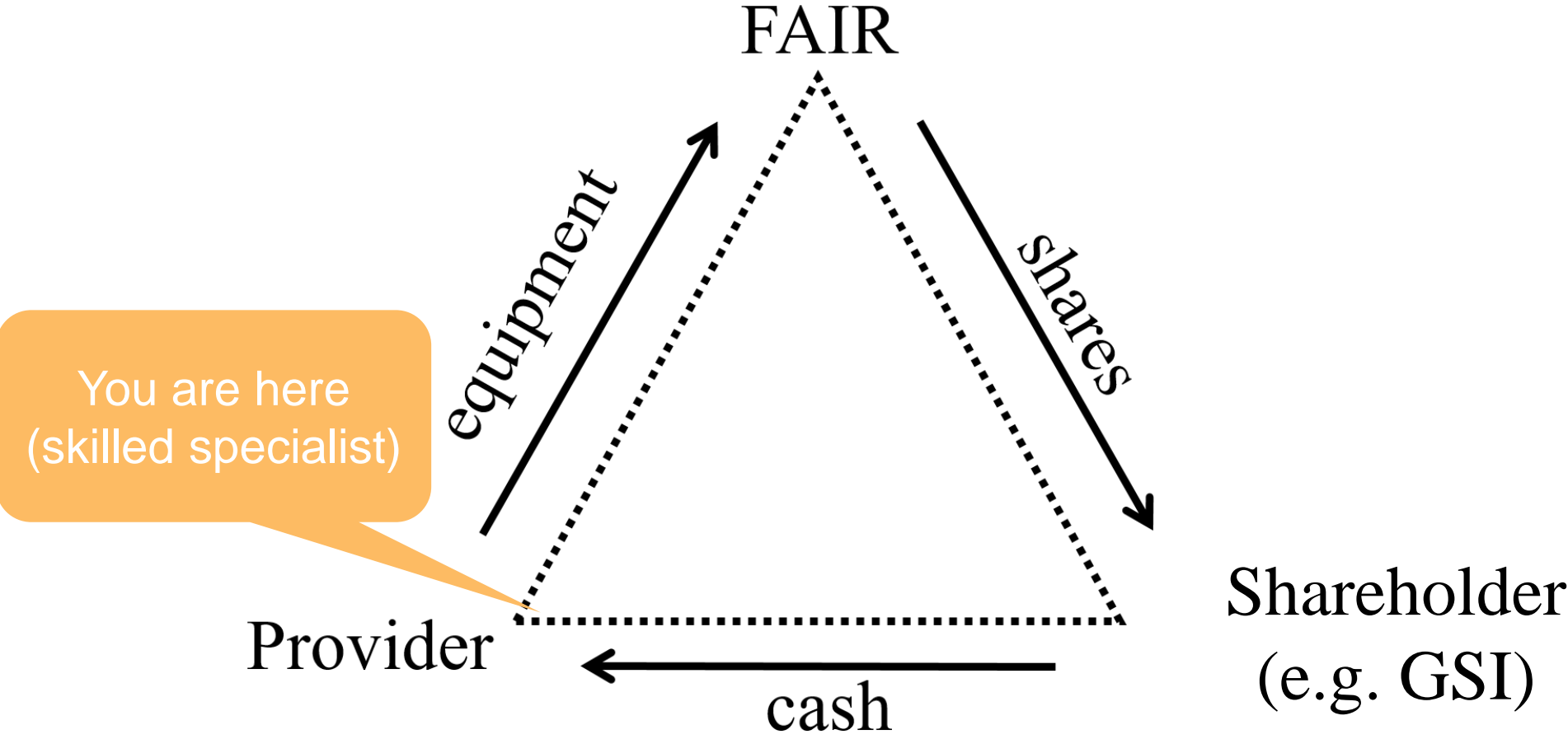
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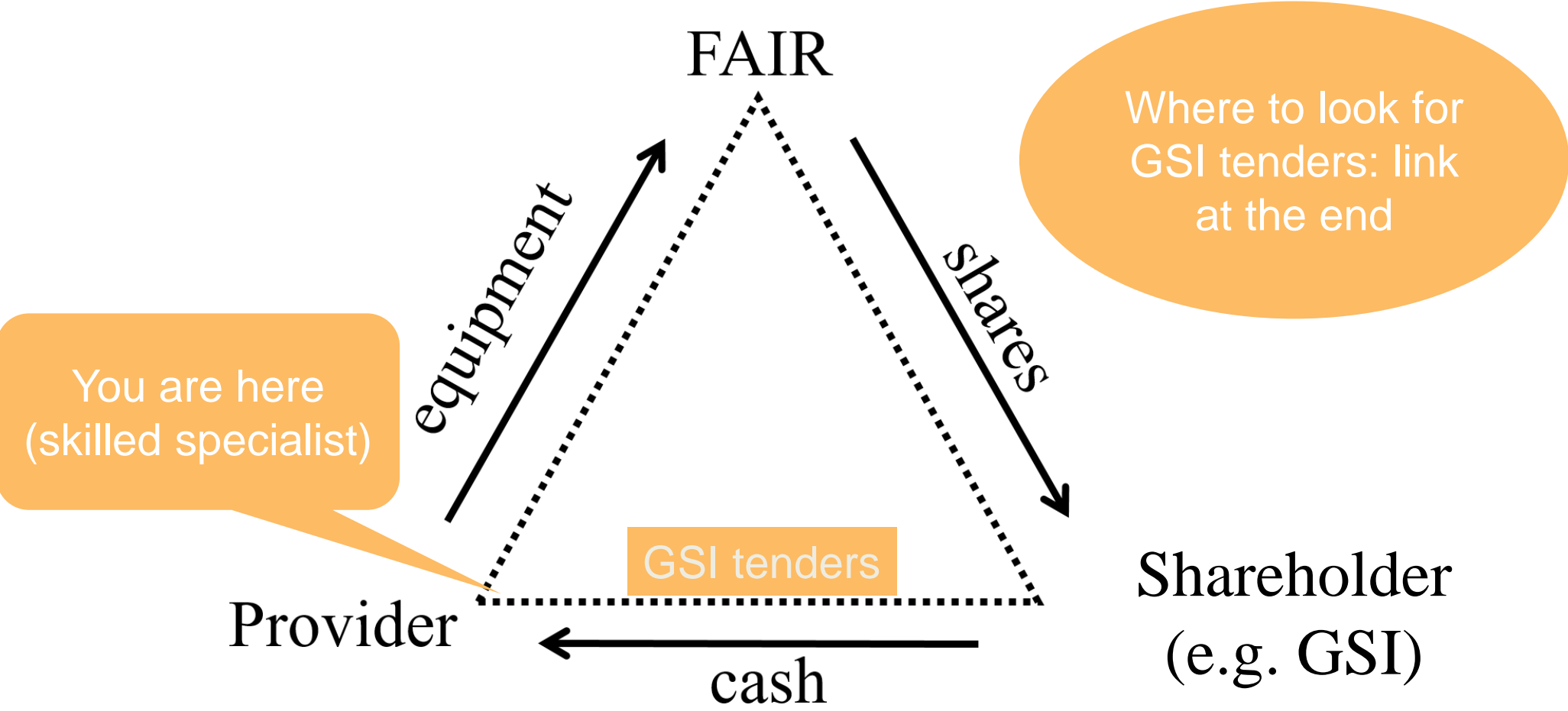
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increasing
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- Accounts for about half of accelerator procurement
- Where to find FAIR tenders: link at the end





- We procure according to German public procurement law
- FAIR/GSI procurement process: link at the end
- Unlike CERN, we don't have procurement codes or pre-qualification, BUT it also means the onus is on you to make sure you check our tenders
- AND to make yourself known to our procurement department. We have a form for that...

Form: entry in our master database



- Company name, address, website, contact person
- Your competences
- Your design capacity
- The type of collaboration you want with FAIR (e.g. procurements)
- Anything else you want to add
- We will invite you to bid for relevant tenders (but please also check yourself)
- For the form, please write to Sonia: s.utermaann@gsi.de



FAIR — Facility for Antiproton and Ion Research in Europe

Entry in the FAIR master bid list for [country]
 [Name] and [e-mail address] of ILO
 The correctness of this entry was last checked on [date]

1. The company

Company/institution name	
Postal address	
Website	
Name and e-mail address of a contact person	

2. Their competences

<p>What are the capabilities of the company/institute? Please use some key words to help us search our database. Use any words you like: you know best what you do. Please make them human-searchable. FAIR does not use product codes.</p>	
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Example: heat treatment, reduction firing, annealing, ceramic coatings, surface treatments, infra-red optical coatings, sputtering, vacuum and aerospace applications

3. What design capacity does the company/institute have? Please choose all that apply. This will help us match them with the degree of design work necessary for a given procurement.

We can design from scratch using functional specifications	
We can perform extensive design work using an existing design concept	
We can carry out limited design work	
We can supply built-to-print	
Other comments	

4. In what type of collaboration is the company/institute interested? Please choose all that could apply.

FAIR/GSI procurements	
In-kind contributions	
Forming bid consortia	
Technology transfer opportunities	
Research/academic collaboration	
Access to beam time at FAIR/GSI	

5. Is there anything else that the company/institution would like us to know? Please enter it here.

Before I show you our upcoming tenders, please...



- Make sure you register on our master database by sending the form to Sonia! (and let me know when you want me to update it) s.utermann@gsi.de
- We will invite you to bid on relevant tenders when they are launched.
- Please also check the FAIR and GSI procurement pages (links at the end).
- That's it.
- Please don't mail me and ask me when a particular tender is going to be launched. I won't answer! (public procurement compliance)

- Pulse trafos and power cabinets for pBar
- pBar magnetic horn incl. power converter
- DCCT for various machines

- Gamma-t jump quadrupoles for SIS 100
- Extraction septa for SIS 100
- Quench detection for SIS 100

- Gas supply and technical gas supply for super fragment separator (SFRS)
- Pillow seals, oval racetrack bellows and plugs for SFRS
- Stochastic cooling slotline pick-up tanks for CR
- Various pumps (NEG, ion getter, roughing), valves and gauges
- Cryogenic plant and compressor for APPA

- pBar target station with transfer port for irradiated parts
- Super-FRS target chamber (whole system or parts – TBD)

GSI & FAIR: a source of innovation for industry

Our laboratories for material sciences, biophysics and IT are often partners to industry for new technological developments.

GSI & FAIR: innovation in cooperation

Several internal groups for electronics, vacuum technology, sensors and others have a broad range of profound expertise, which they contribute to prosperous cooperations with suppliers.



Office of Technology Transfer: *Your connecting bridge to GSI/FAIR innovations*

E-mail: transfer@gsi.de Web: www.gsi.de/transfer

- FAIR and GSI procurement process: https://www.bsbf2020.org/module_api/282492/blog/bsbf2020-news/post/318374-bsbf2020-procurement-handbook
- Check out our open tenders at FAIR and GSI: https://www.gsi.de/en/start/business_industry.htm
- Check out the open tenders of our other shareholders, especially if you have a branch in their country
- Please mail Sonia for entry on the master supply database: s.utermaann@gsi.de
- Consider exhibiting at BSBF: <https://www.bsbf2020.org/>

- Contact the Technology Transfer team at FAIR and GSI:
www.gsi.de/transfer
- GSI host(ed) regular roadshows on campus:
www.gsi.de/transfer
- Check out our TT proposals at the Big Science Business Forum:
https://www.bsbf2020.org/Technology_transfer_proposals

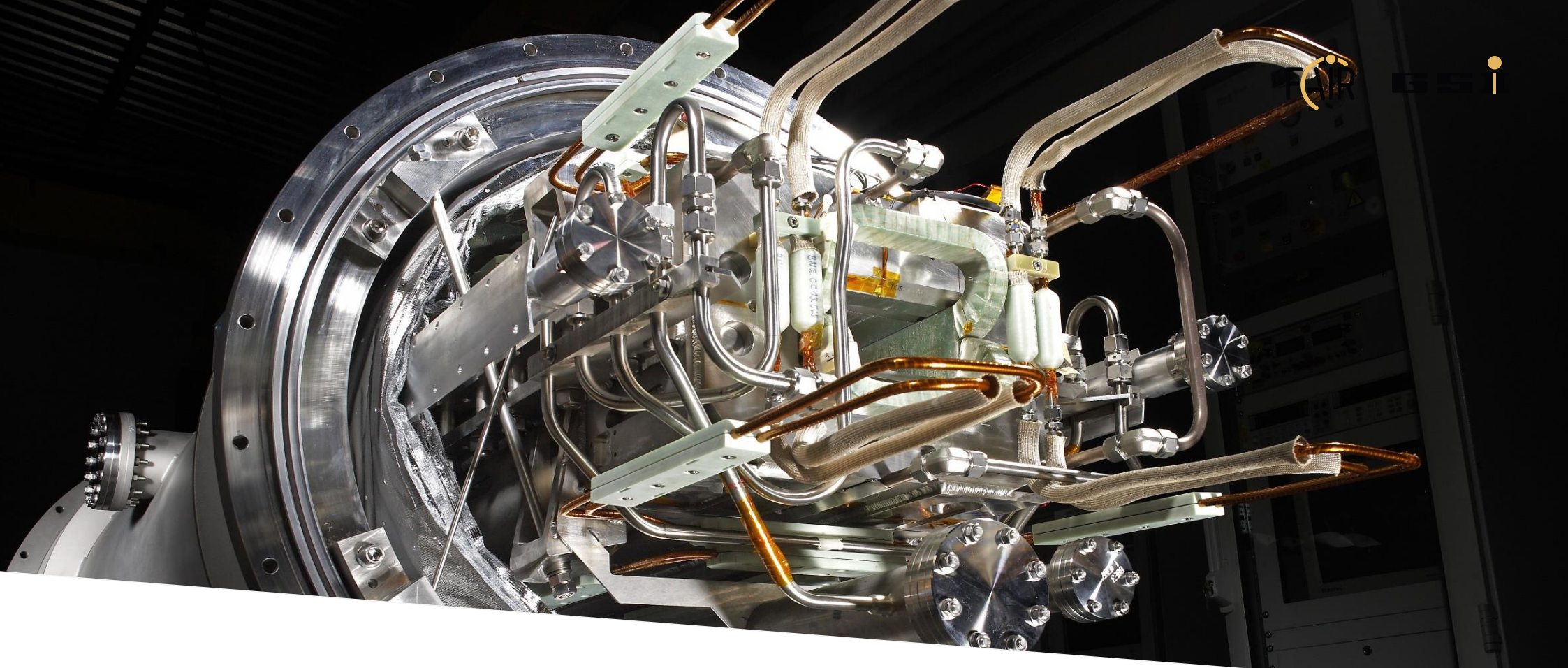
Thank you for your attention

Dr. Sonia Utermann

FAIR in-kind office and FAIR/GSI export control

Acting FAIR ILO for Germany

s.utermann@gsi.de



Extra slides