

**S.E.R.T.**  
Software  
Engineering  
ReThought

**Conference 2024**

**SERL**

*Software Engineering Research Lab*

**BTH** **SERL Sweden**  
LEADING SOFTWARE ENGINEERING



[www.rethought.se](http://www.rethought.se)



(partners)



# Welcome to the **S.E.R.T** conference 2024!



Mobile Financial Services



Knowledge Foundation

BTH SERL Sweden  
LEADING SOFTWARE ENGINEERING

- Applied (tillämpad!) research with **partners**
  - SERL@BTH Ranked no. 1 in EU (2<sup>nd</sup> in the world) in empirical software engineering research
  - Largest applied research group in Software Engineering in SWE
- [serlsweden.se](http://serlsweden.se)



## KKS Profile project

*Start: 2018-10, End: 2027-12*

*120MSEK budget approximately*

*16 company partners*

Take on the *next generation challenges* partner companies face when developing software-intensive products and services (SIPS)

[rethought.se](http://rethought.se)

**“Software Engineering”**

# (what is)

“standards” LLMs continuous delivery “lean” automation “agile” ISO test-driven implementation proposals  
 test cases HCI AI “WAYS of WORKING” machine learning specification  
 models value-based SOA  
 specification *code* visualization

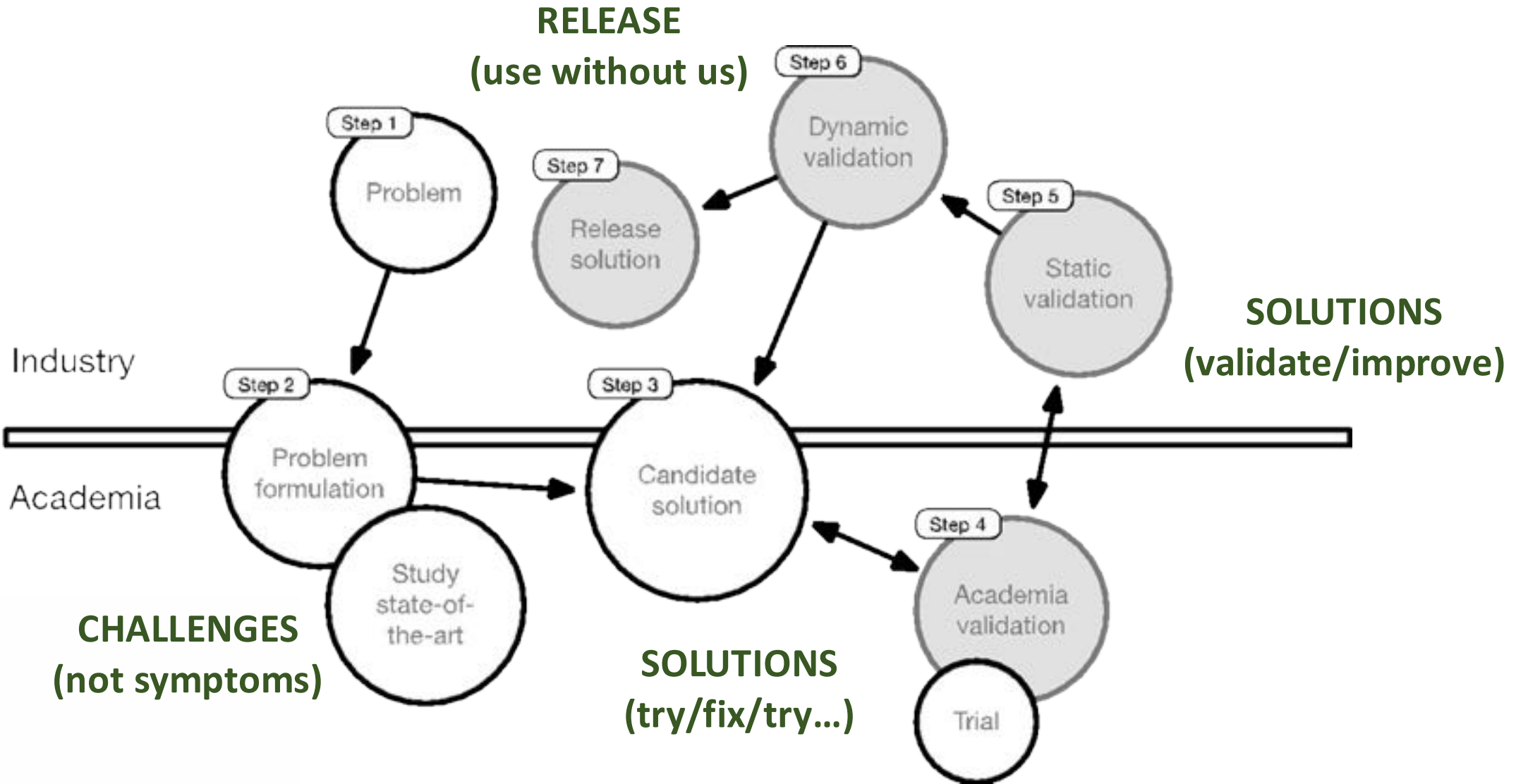


**METHODS**  
**FRAMEWORKS**  
**TOOLS**  
**STANDARDS**  
**MODELS**  
 and  
**WAYS OF WORKING**

**EFFECTIVE**  
**EFFICIENT**  
**SCALABLE**

requirements engineering development  
 configuration portfolio business analysis architecture  
 verification & validation design **coding** analysis planning & leading  
 estimation integration technology governance maintenance & evolution  
 commissioning tendering & acquisition human factors

**how we work**



the **S.E.R.T** project (evolution over the years)...





**2018**

**2024**

Agile / Lean teams

Test Automation

Requirements Engineering

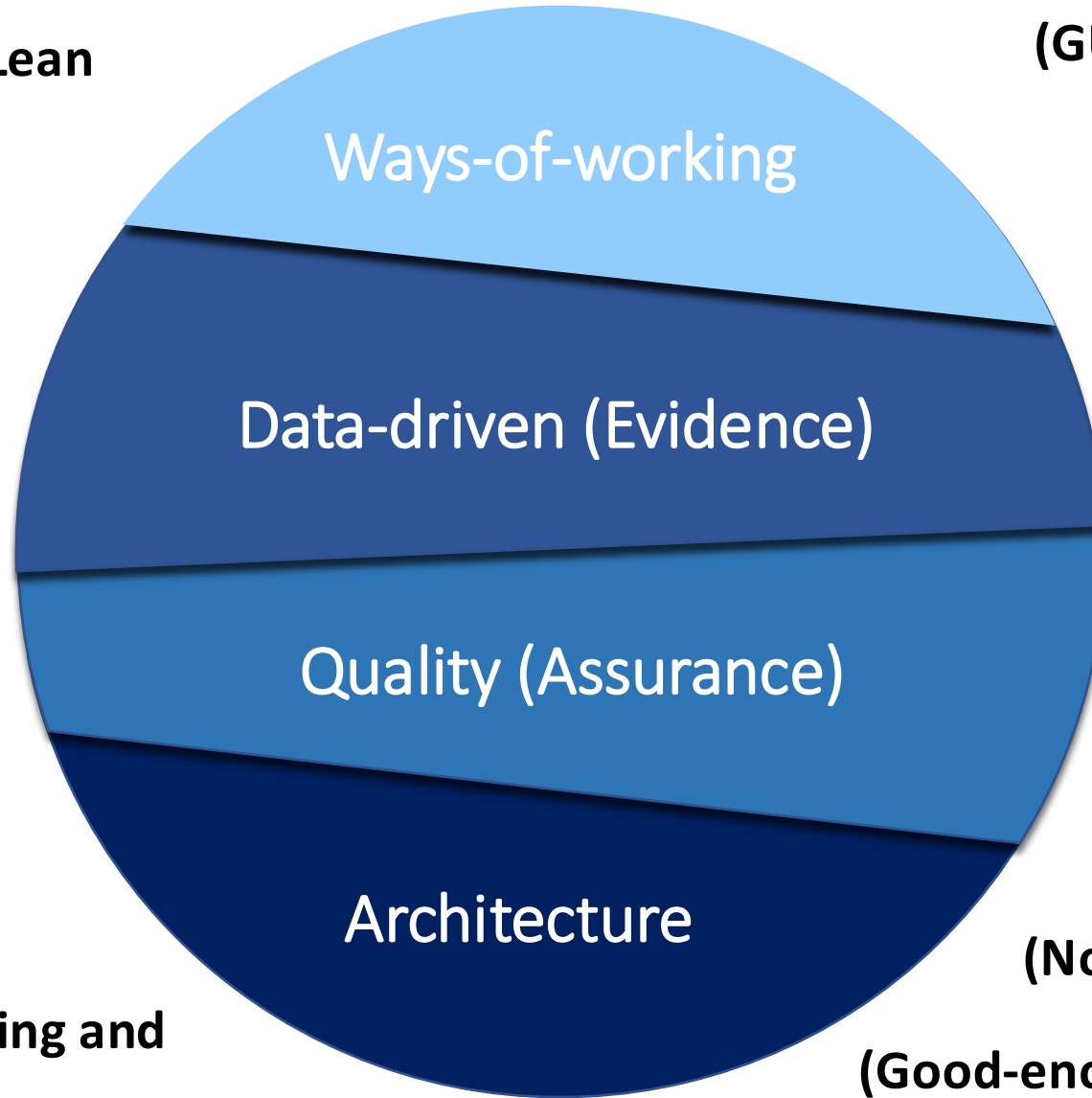
Value-based Engineering

Metrics

Natural Language Processing

Software Engineering and Cognition

...



(GUI) Testing

CI/CD

Compliance (automation)

Asset Management/TD

Security (modeling)

<b>AI4SE</b> <b>SE4AI</b>	ML
	LLMs
	RAGs
	GenAI

Efficiency/Effectiveness

Working-from-anywhere

(Non-deterministic) Testing

(Good-enough) Requirements Engineering

“TOOLS”

These two days are some examples and snap-shots of things we have - and are currently - working on!



**conference 2024!**

**practicalities**

(thanks to)



# 12<sup>th</sup> Floor



(program)

**DAY 1: WED 20 NOV**

**Track 1: Remote and Hybrid Working**

**Track 2: Cutting-Edge Software Engineering**

**10:30-11:00 Joint Coffee break**

**12:00-13:30 Joint Lunch**

**14:40-15:10 Joint Coffee break**

END 16:30

END 16:30

...

**18:00 Conference DINNER (sponsored by SERL/DIPT/BTH)**

**TRACK 3: AI and LLMs in/for Software Engineering**

**Start 09:00**

**10:30-11:00 Coffee break**

**11:50-13:20 Lunch**

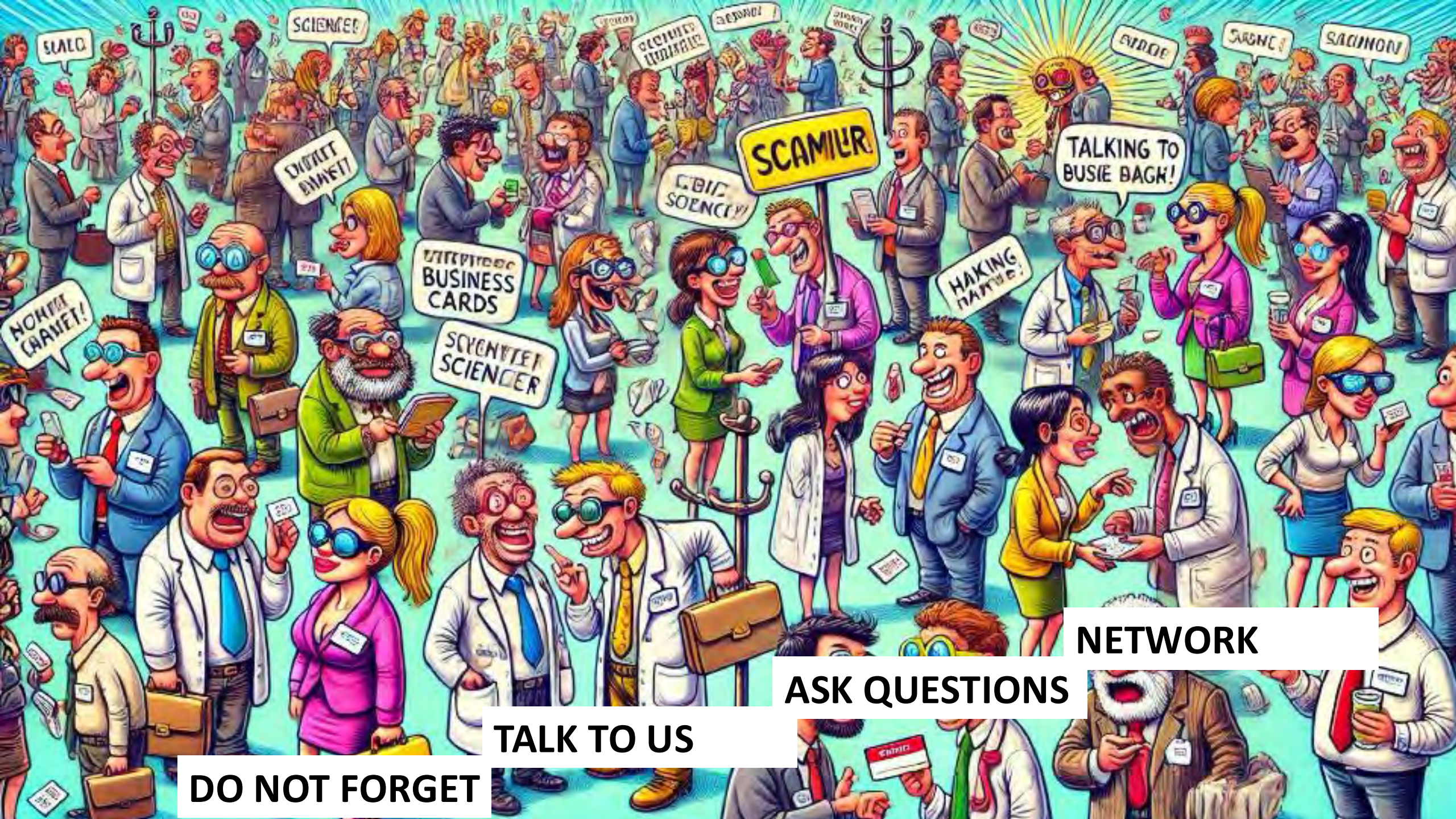
**14:40-15:10 Coffee break**

END 16:00

Any questions/issues:

*(will SERL team members please stand-up/raise their hands and wave ;)*

*(contact your HOST)*



**DO NOT FORGET**

**TALK TO US**

**ASK QUESTIONS**

**NETWORK**

STALO

EXOTIC  
DINNET!

SCIENCE!

SCIENCE  
TECHNOLOGY

SCIENCE

SCAMMER

COOL  
SCIENCE!!

STRIDE

SABINE

SADIMON

TALKING TO  
BUSIE BAG!

EXOTIC  
BUSINESS  
CARDS

SCIENCE  
SCIENCE

HAKING  
NAME!

NONNA  
CRANET!

ASK QUESTIONS

TALK TO US

NETWORK

DO NOT FORGET



# Thank

# you

**Thank  
you.**

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*... and please enjoy the talks and mingling/discussions*

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