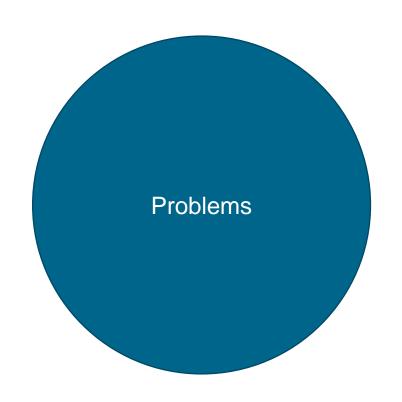
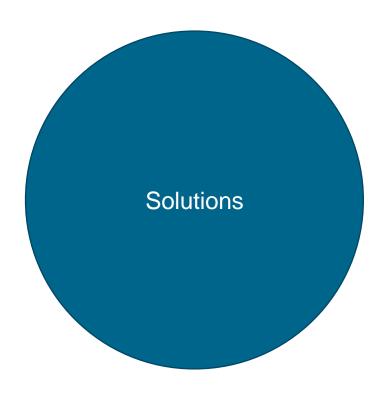
WORKSHOP **AMR User Stories David Knapp** David Knapp, DLR-SC, 03.09.2025

How will I push AMR-techniques forward?







A HIGHLEVEL VIEW ON AMR

A "typical" AMR Workflow



Problem definition



"During the problem definition nobody thinks about AMR, but without AMR nobody can solve it"

Mesh generation



"My AMR techniques do not support abritary elements, but my mesh-generator generates exotic polygons"

Simulation



"Coupling with library xyz is a nightmare"

Analysis



"Can I use AMR-Datastructures to visualize my results?"

Publication / Utilization



"There is no conference specialized on AMR, where I could present my results"

My workflow is completely different



- Tell us! What is your workflow and why is it your workflow?
- Where are your pain points?

Summary



Presentation of the key insights of each aspect

Eventually: Problem focussed development of the next generation of AMR Solutions