S.T.A.R.S. Kickoff

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Institut für Informatik

19. October 2000

Agenda

- Current visionary scenario
- Top level design and team structure
- Registration and next steps

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An (Almost) Real Procedure

Forschungsreaktor München (FRM)

B E T R I E B S H A N D B U C H (B H B)

Bearbeiter:	Unterschrift Bearbeiter:
Stand: Rev.-Index:	Freigabe FRM-Betriebsleitung:

Teil: V

Kap.: 3

Titel: Störfälle und Störungen

Zugehörige Unterlagen: Rohrleitungsplan Kalte Quelle am FRM; Zeichnungs-Nr. KQ0-201
Rohrleitungsplan für KQ-Kälteanlage; Zeichnungs-Nr. KQ0-200
Grenzwerte, Alarme, Folgeschaltungen der KQ-Anlage; Nr. KQE@MÜS#4

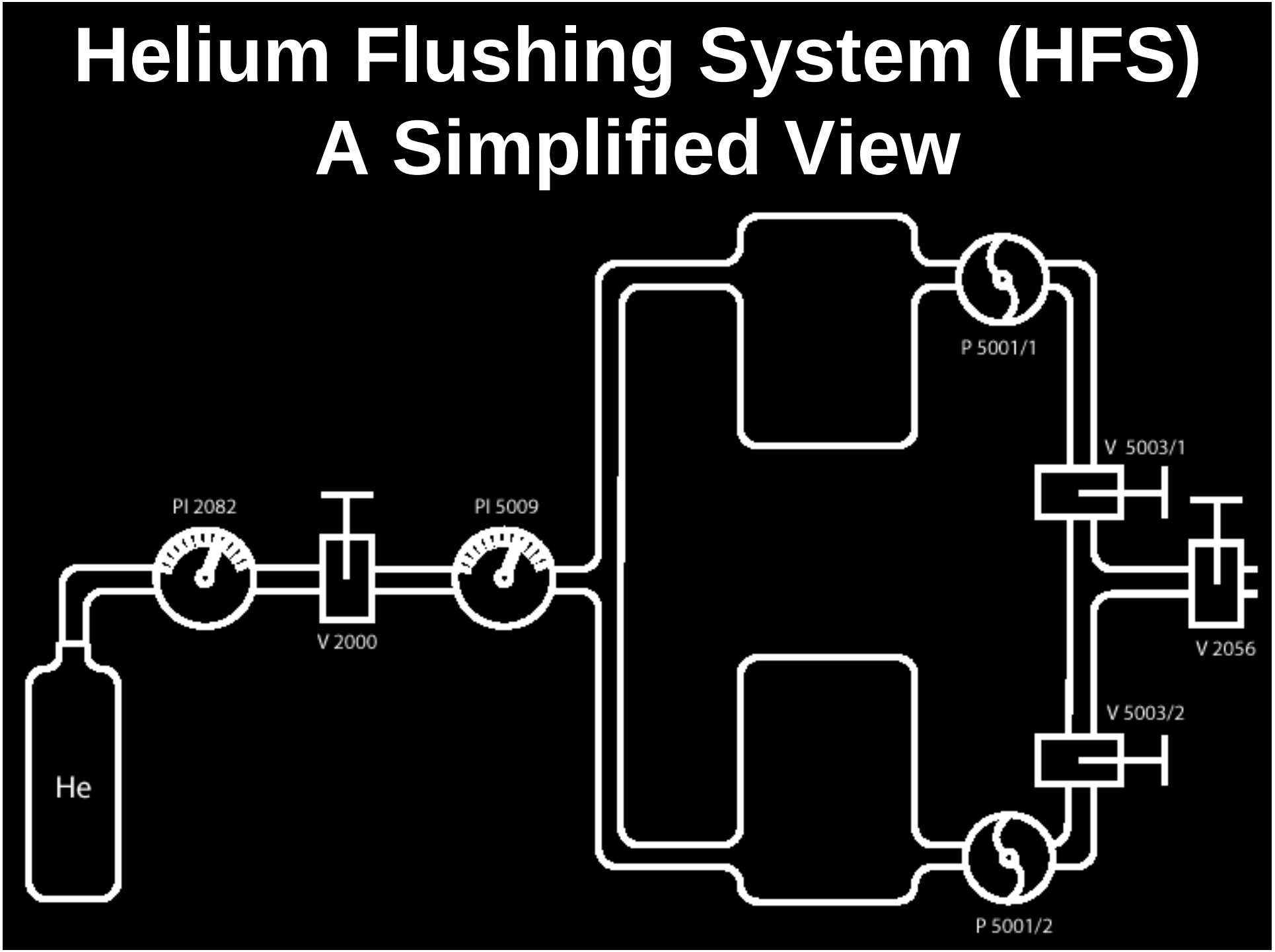
Helium Flushing System

- Hydrogen is dangerous

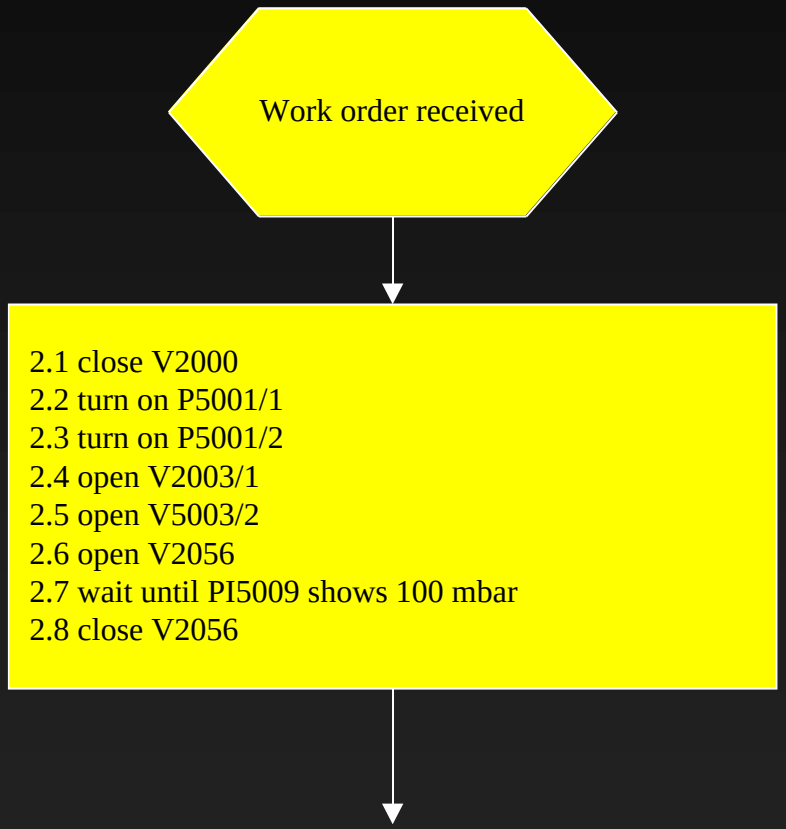
  $2\ H_2 + O_2 \longrightarrow 2\ H_2O$ /exotherm (heat)

- Nitrogen is used to flush Hydrogen from one of the subsystems of the Reactor in a controlled manner
- A Helium Flushing System serves as a *backup* for the Nitrogen Flushing System

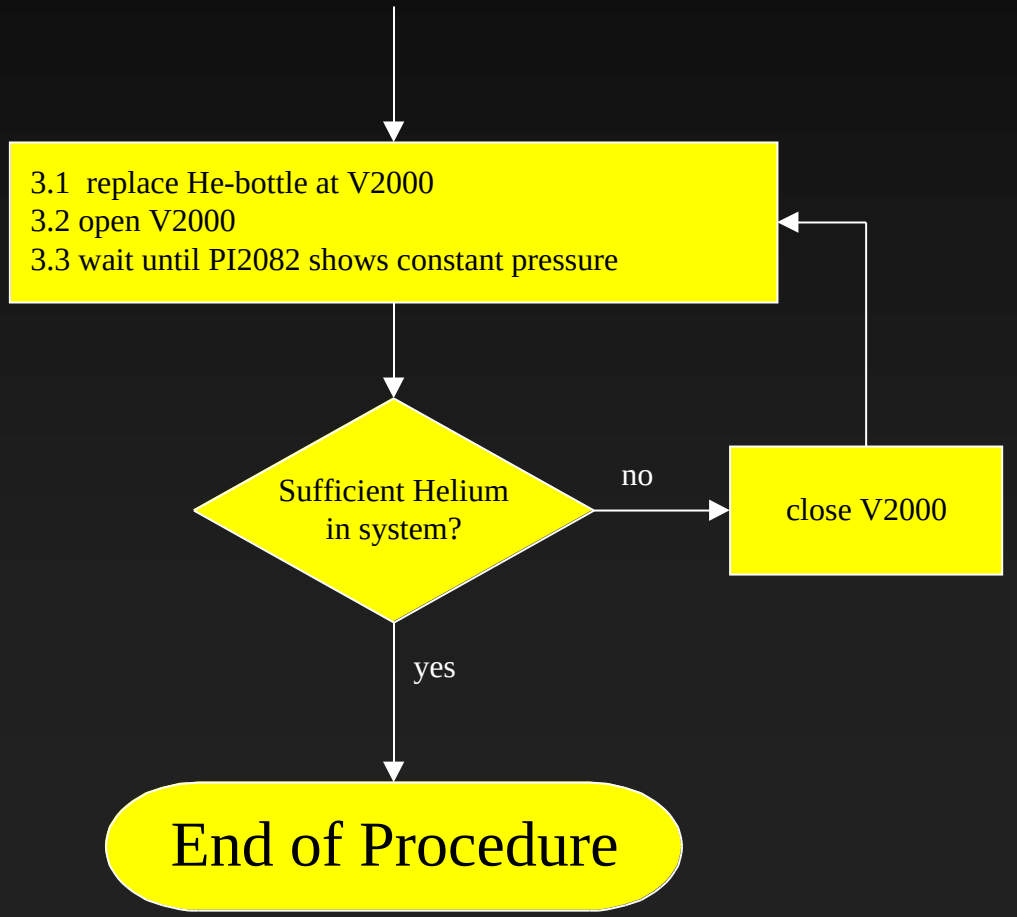
Helium Flushing System (HFS)
A Simplified View



HFS Maintanence Procedure Part I



HFS Maintenance Procedure Part II



How is it done today?

+

He-System bis zu den geschlossenen Ventilen evakuieren,

dazu				
Ventil, H	V2000	ZU	Vor P-Bau I	
Vakuumpumpe	P5001/1	EIN	G-Haus	
Vakuumpumpe	P5001/2	EIN	G-Haus	
Ventil, H	V5003/1	AUF	G-Haus	
Ventil, H	V5003/2	AUF	G-Haus	
Ventil, H	V2056	AUF	G-Haus	
Warten (evakuieren) bis Druckanzeige an Meßstelle (Evakuier-Sammelleitung)	PI5009	$1 \cdot 10^{-1}$ bar abs	G-Haus	
dann Ventil, H	V2056	ZU	G-Haus	

Our (long term) Solution:

- IETMs
- Wearable Computer
- Multimodal Input
  - Keyboard/Dial
  - Speech Recognition
  - Sensory Data
- Multimedial Output
  - Conventional Graphics
  - Speech Synthesis
  - FOV Augmentation

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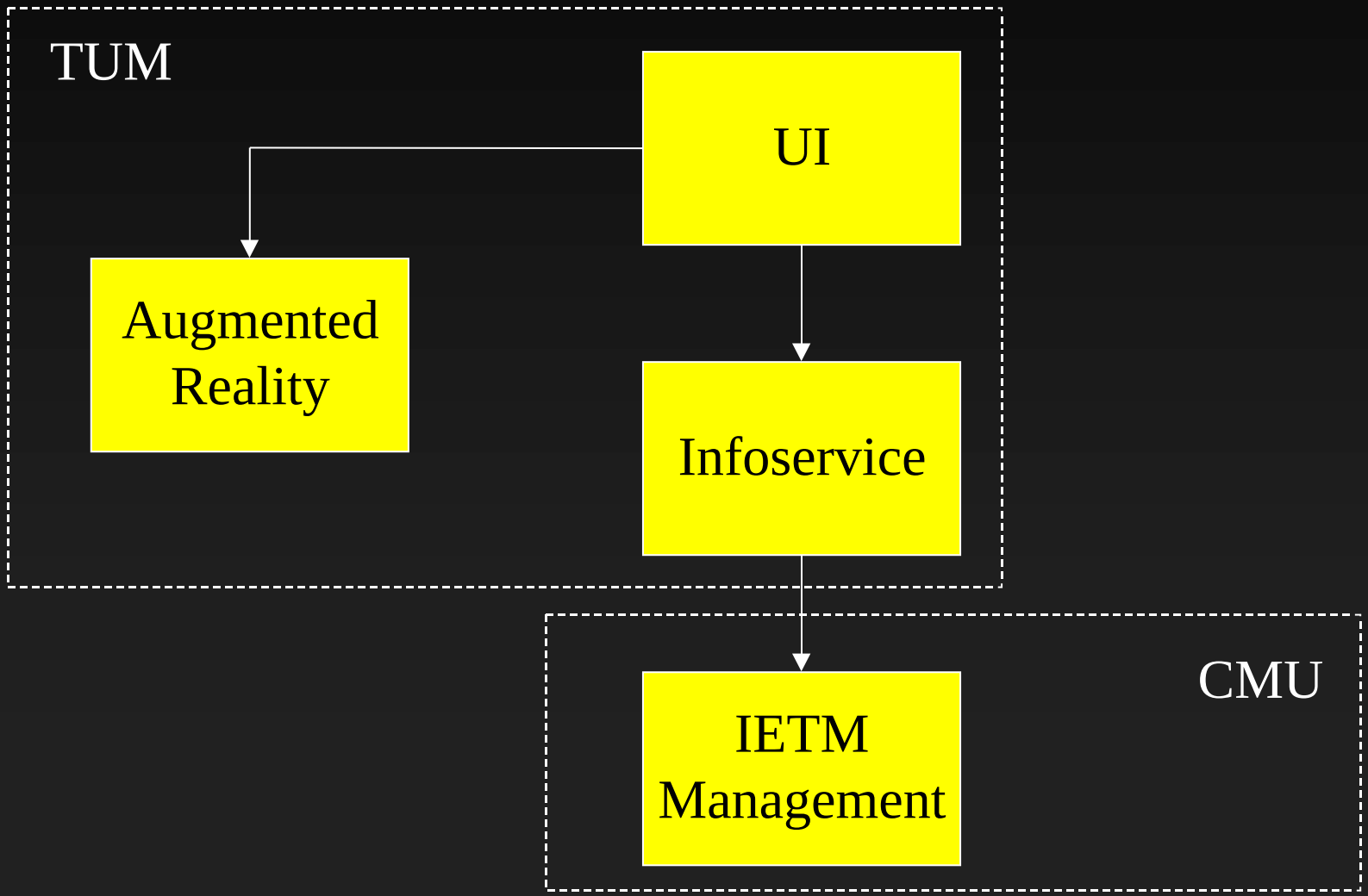
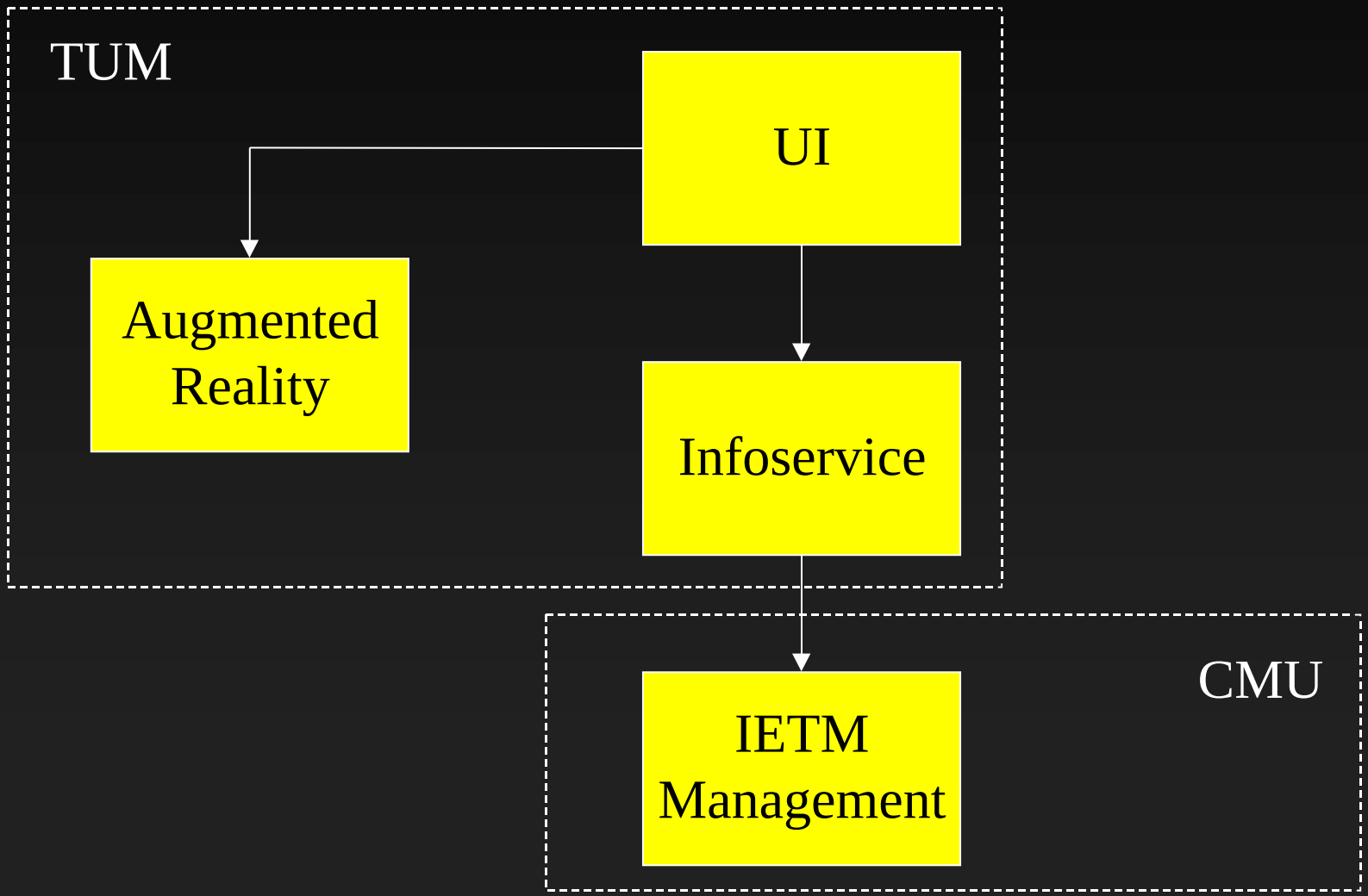
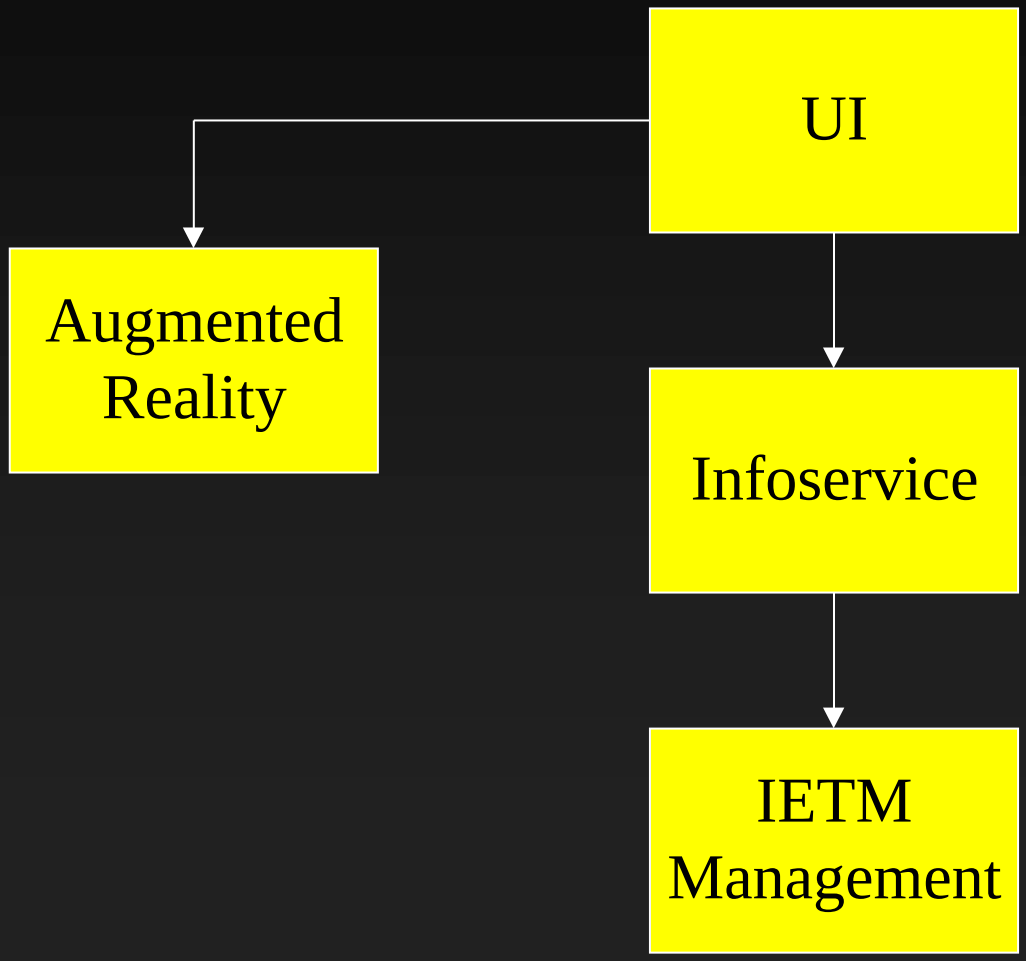
Top-Level Design



Team Structure



Team Structure



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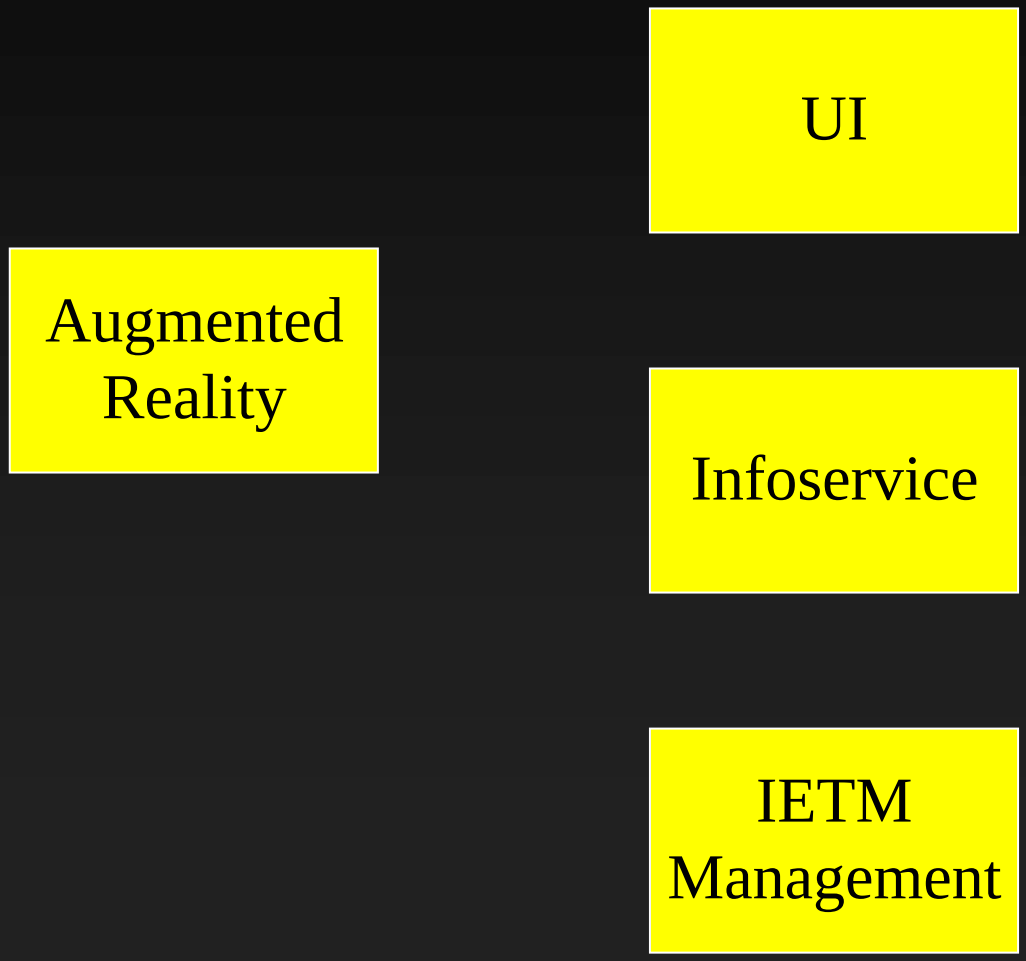
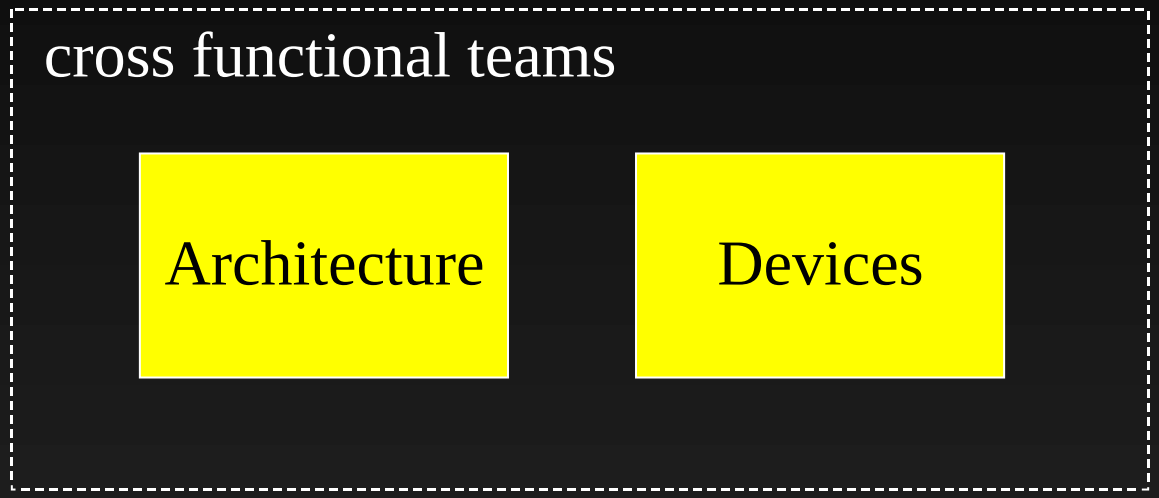


Team Structure



Augmented Reality

UI

Infoservice

IETM Management

Cross Functional Teams

- Architecture
  - More talking, less coding
  - Make System Level Descisions that Impact Everything
- Devices
  - Less talking, more coding
  - Write Video Digitizer Components for QuickTime
  - Integrate Advanced Authentification Methods
  - ...

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Registration

Register at:

Http://www12.in.tum.de/projects/STARS2001/

before Fr. October 20, 20:00.

All participants should register, even if you already have done so in July.

Next Steps

- UML Tutorial (Fr. 11:15, Rm: S1128)
- Team Assignments (Mo. 14:15, Rm -3175)

Q & A