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THE FRENCH AEROSPACE LAB

www.onera.fr



LABSIM – Scientific fields

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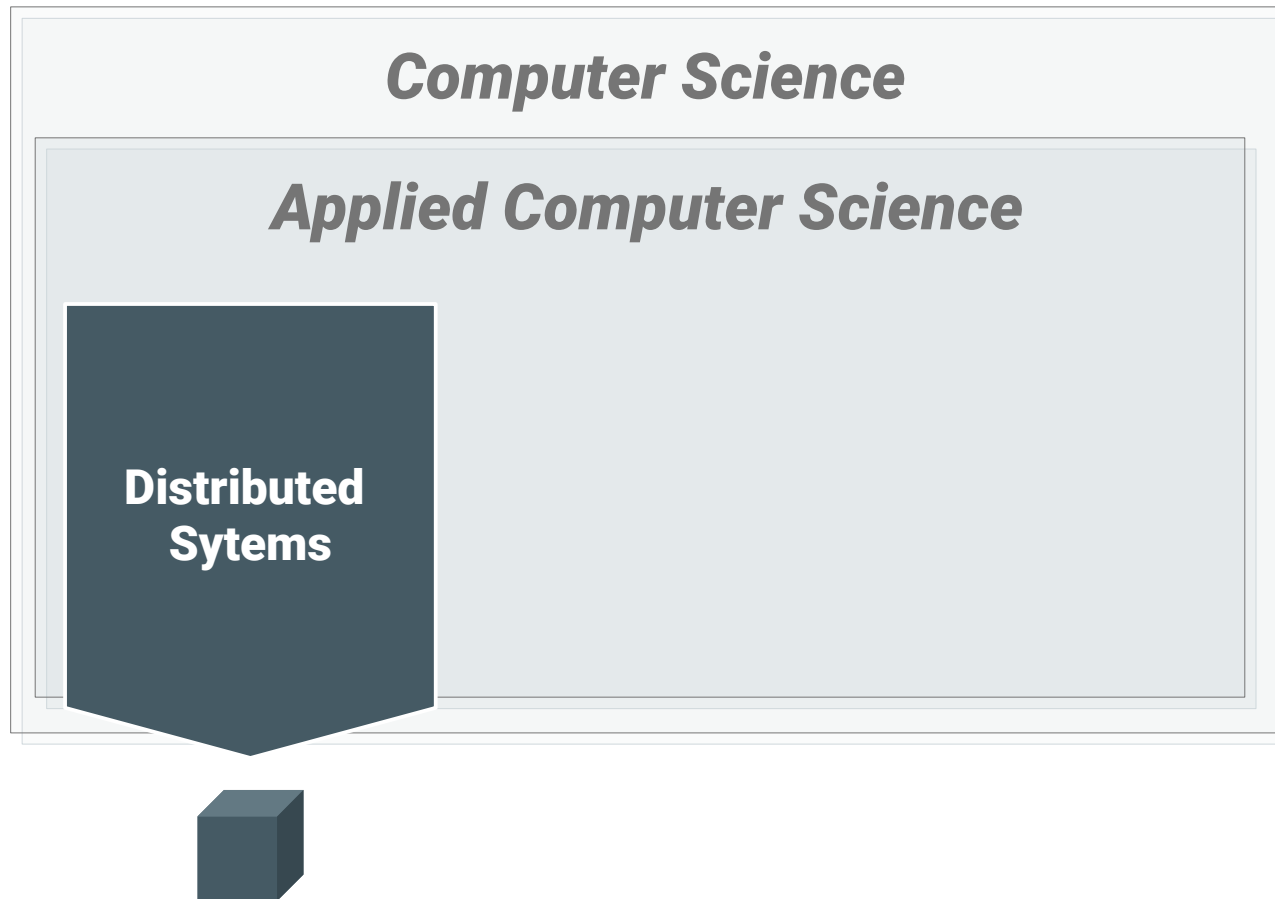
THE FRENCH AEROSPACE LAB

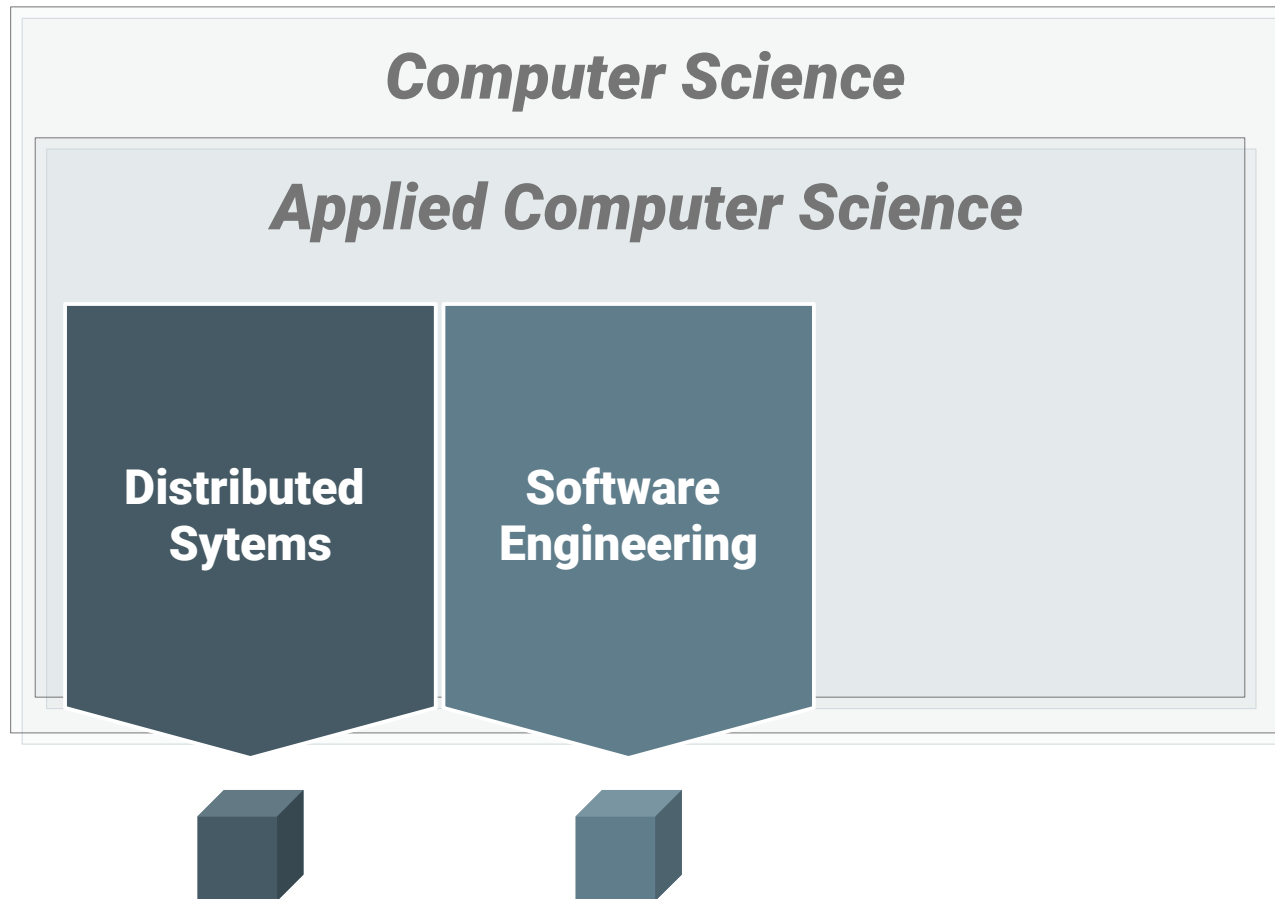
LABSIM-> Scientific fields

Computer Science

Computer Science

Applied Computer Science





LABSIM-> Scientific fields

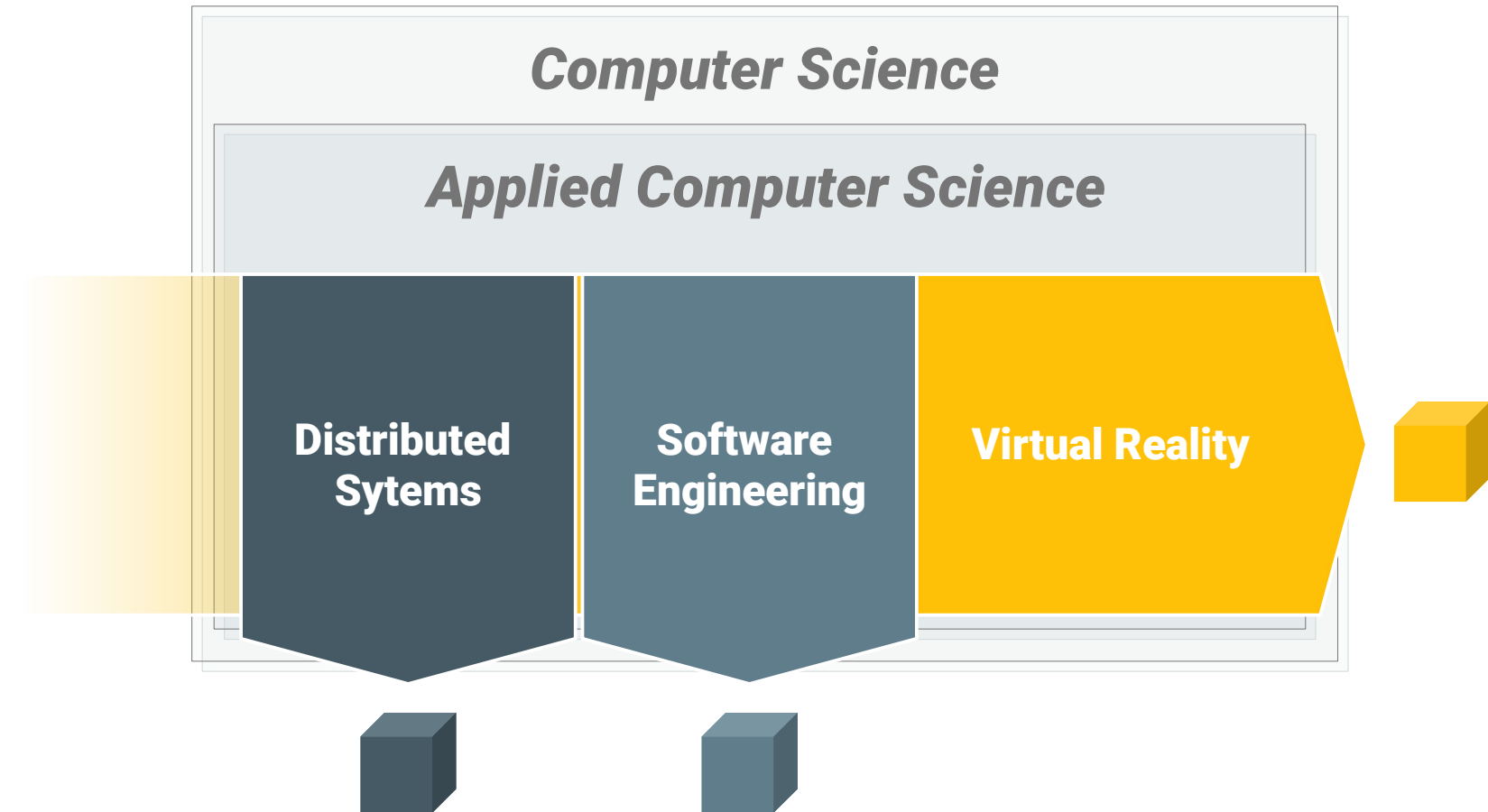
Computer Science

Applied Computer Science

**Distributed
Sytems**

**Software
Engineering**

Virtual Reality



LABSIM-> Scientific fields

Computer Science

Applied Computer Science

**Distributed
Systems**

**Software
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Virtual Reality

Augmented



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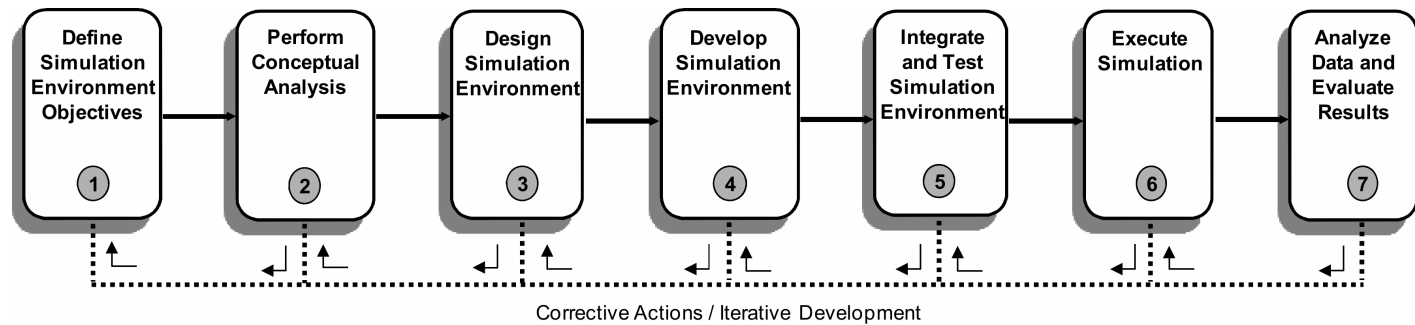
Augmented

Mixed

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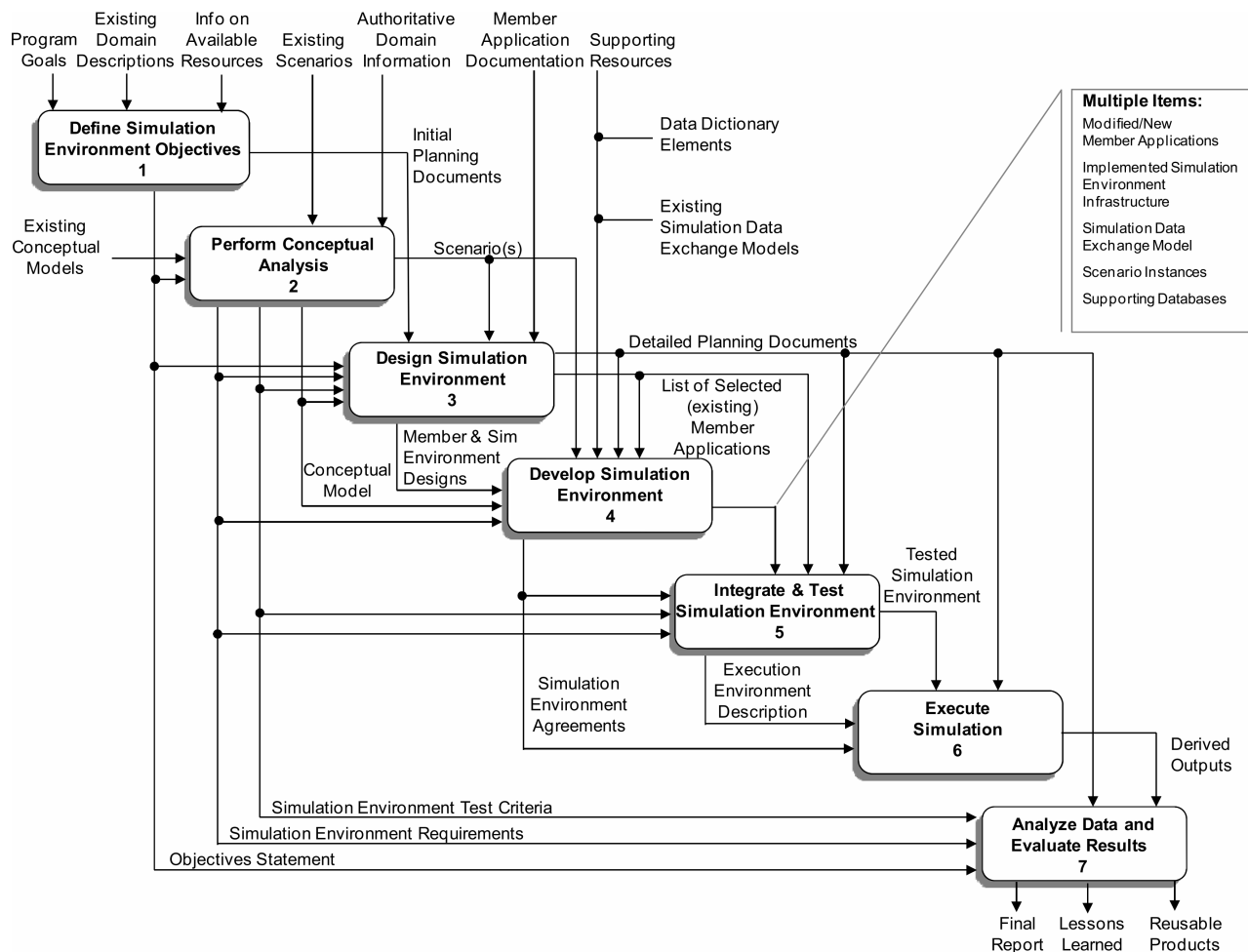


LABSIM-> Scientific fields



*Distributed Simulation Engineering and Execution Process (DSEEP)
top-level process flow view*

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*Distributed Simulation Engineering and Execution Process (DSEEP)
detailed product flow view*



IEEE Std 1730-2010 (Revision of IEEE Std 1516.3-2003)

IEEE Recommended Practice for Distributed Simulation Engineering and Execution Process (DSEEP)

IEEE Std 1730.1-2013

IEEE Recommended Practice for Distributed Simulation Engineering and Execution Process Multi-Architecture Overlay (DMAO)

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OMG DDS v1.4

Data Distribution Service (DDS)

OMG DDSI-RTPS v2.2

The Real-time Publish-Subscribe Protocol (RTPS) DDS Interoperability Wire Protocol Specification

OMG DDS-PSM-Cxx v1.0

ISO/IEC C++ 2003 Language DDS PSM

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**Distributed
Systems**

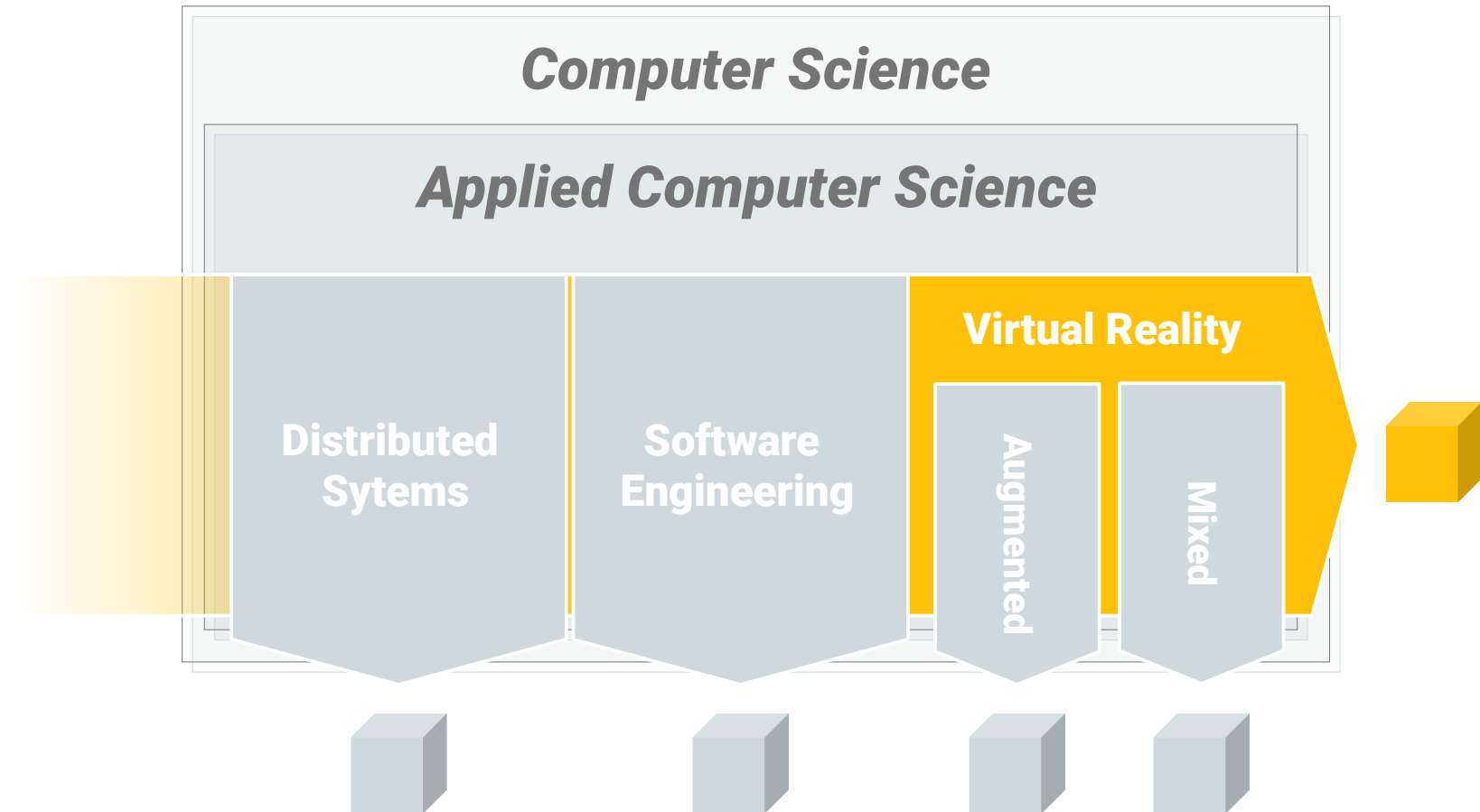
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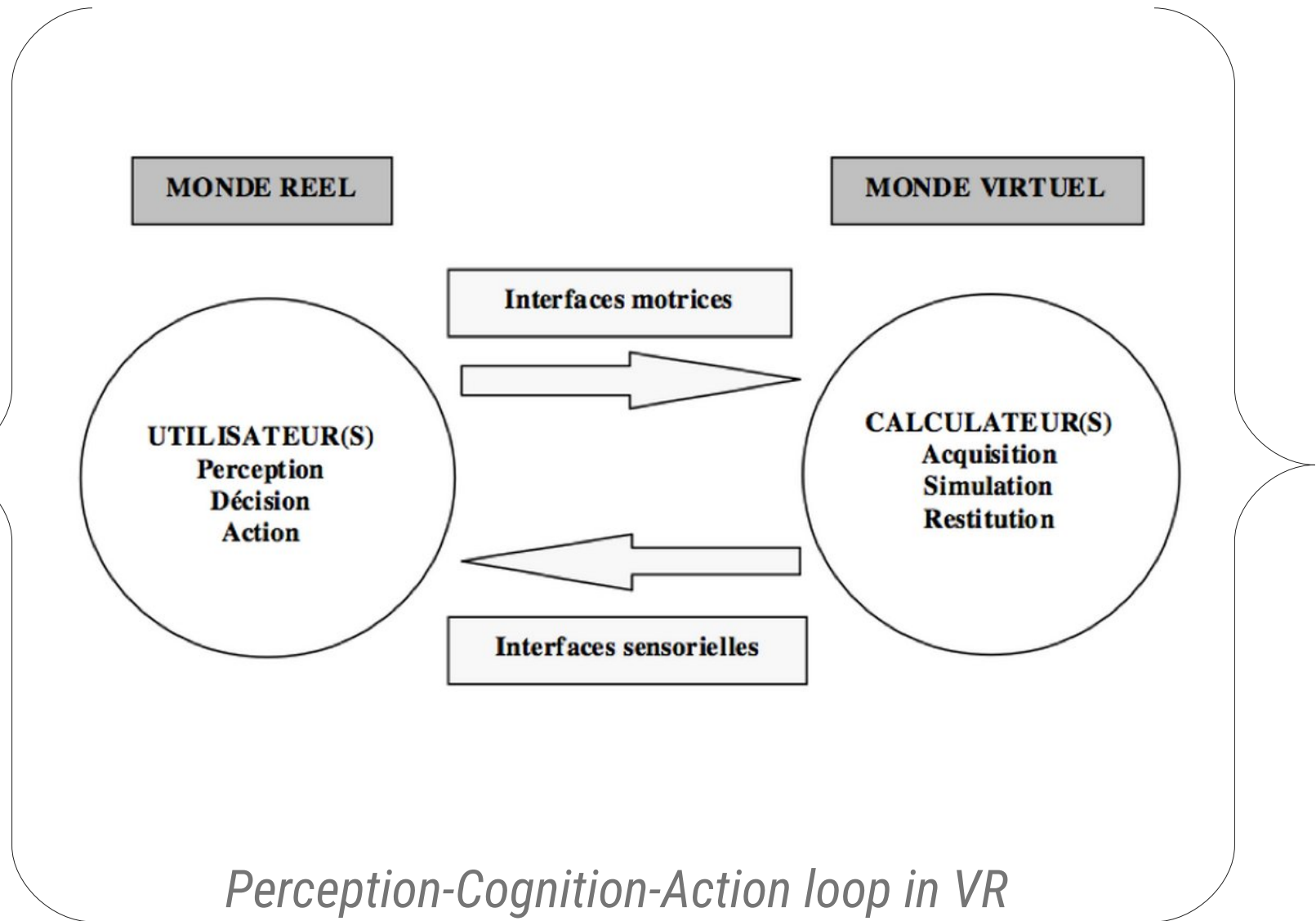
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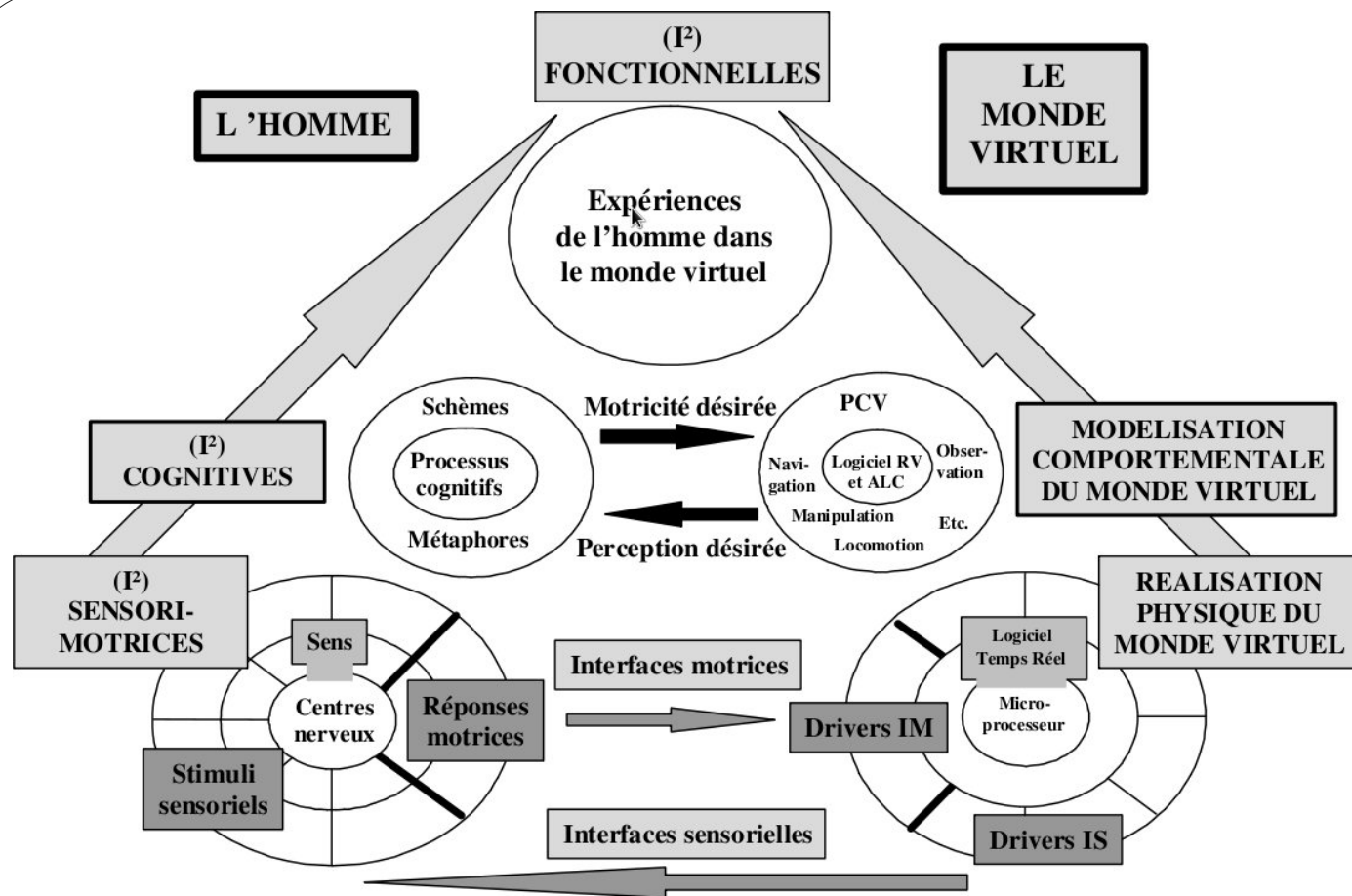
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(I²) = IMMERSION ET INTERACTION

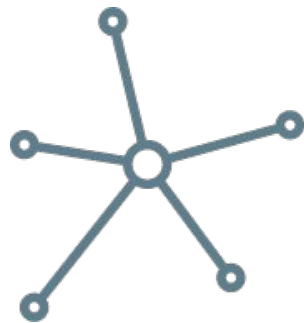
Technocentric reference scheme in VR



FUCHS, P. & al. *Le traité de la réalité virtuelle. Volume 3 : Outils et modèles informatiques des environnements virtuels*. Mines Paris : Les Presses, Février 2006. Collection Sciences Mathématiques & Informatiques. ISBN : 2-911762-64-9

IEEE VRAR - Virtual Reality and Augmented Reality Working Group

Will publish the next standard from IEEE 2048.[1...12]



LABSIM

<http://www.labsim.github.io>