Connecting ideas, anticipating the future: collaborative innovation for 5G and 6G networks.

# II INTERNATIONAL WORKSHOP XGMobile

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## The Generative AI Revolution for Immersive Technologies

PhD. Rafael Teixeira Sousa

Federal University of Mato Grosso Advanced Knowledge Center for Immersive Technologies









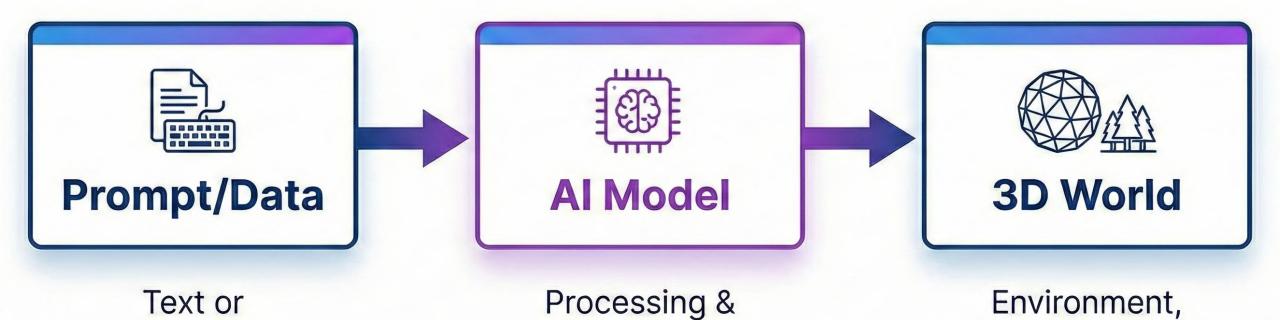








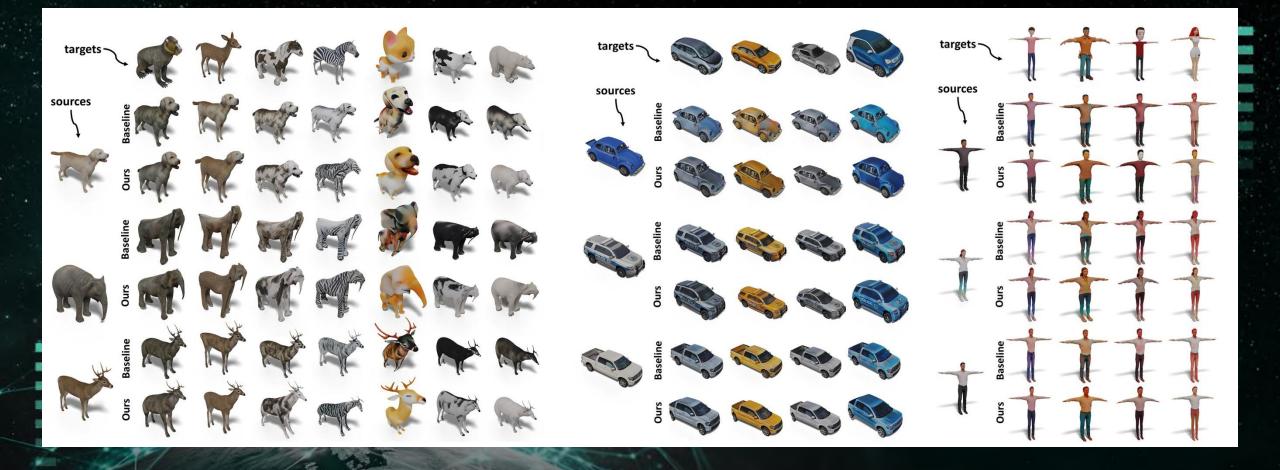




Generation

**Parameters** 

Objects, & Lighting



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GOVERNO DE MINAS

MINISTÉRIO DA CIÊNCIA, TECNOLOGIA E INOVAÇÃO DO LADO DO POVO BRASILEIRO









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MINISTÉRIO DA CIÊNCIA, TECNOLOGIA E INOVAÇÃO SOVERNO DO



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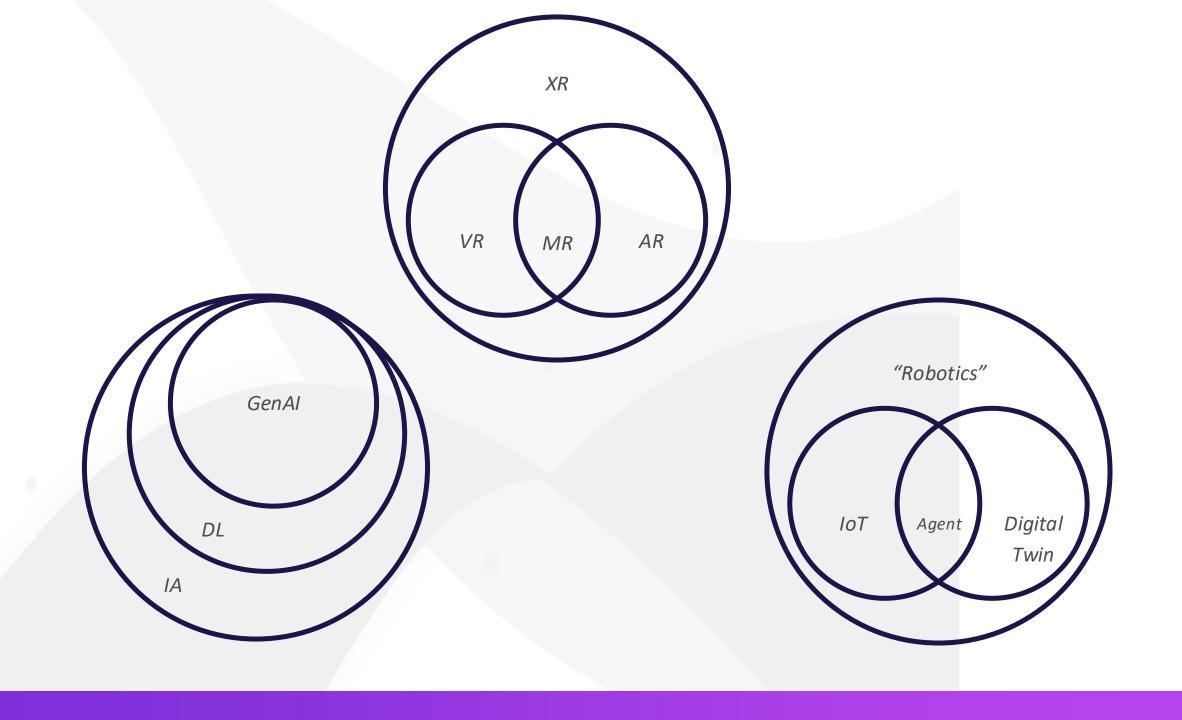


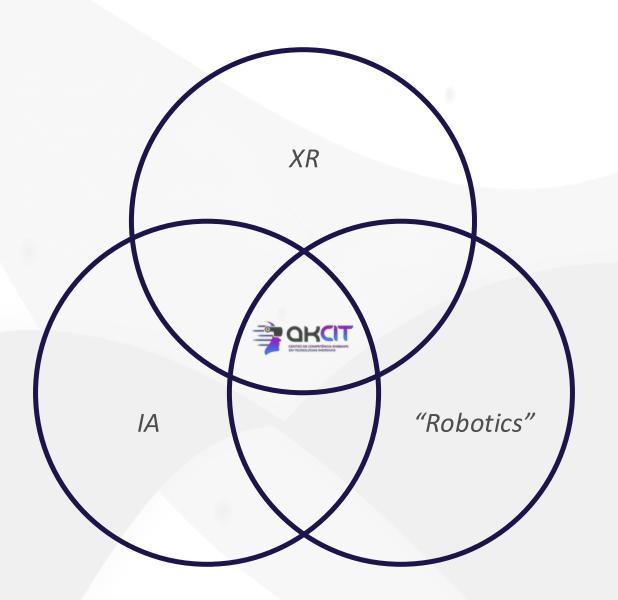




Empresa Brasileira de Pesquisa e Inovação Industrial













### R\$ 14 millions invested

R\$ 60 millions invested







### 5,5 MILLIONS

**Associated Companies** 



































RESEARCH, INNOVATION AND DEVELOPMENT

**STARTUPS** 

HR TRAINING

INFRASTRUCTURE







### **27 MILLIONS**

### RESEARCH, INNOVATION AND DEVELOPMENT

8

Projects ongoing

+40

Research artifacts

Papers, patents, and software

+300

Researchers

### 9 MILLIONS

INVESTED IN HR TRAINING

17

Courses developed

+900

Enrolled individuals, with 30% having already completed the course.

+45

Published ebooks

### **14 MILLIONS**

#### IN INVESTMENTS IN ATTRACTING AND CREATING STARTUPS

138

Startups attracted

14

CNPJs created

+1500

Professionals trained

### 24 MILHÕES

#### INVESTMENTS IN INFRASTRUCTURE

+50

XR development stations

8

Units of DGX B200

1°

**OVX L40S Server from Brazil** 

### **RD&I Projects**







### ALGORITHMS FOR BUILDING TECHNOLOGICAL COMPONENTS OF DIGITAL HUMANS



























### COMPUTATIONAL TECHNIQUES FOR MULTIMODAL DATA SECURITY AND PRIVACY















### **SOFIA: SENSORIAL OLFACTORY FRAMEWORK IMMERSIVE AI**



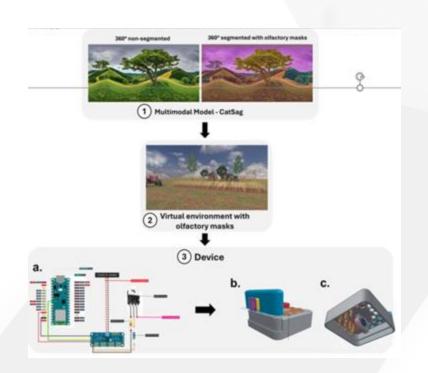








### SENAI CIMATEC



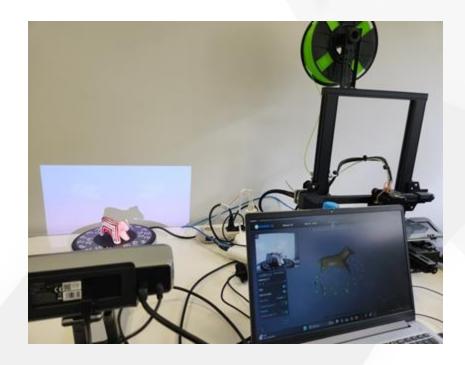


### INVESTIGAÇÃO SOBRE INTERAÇÕES ENTRE ESPAÇOS FÍSICOS E ESPAÇOS DIGITAIS IMERSIVOS









### INVESTIGATION OF IMMERSIVE TECHNOLOGIES FOR THE DEVELOPMENT OF NEW EXPERIENCES IN THE ARTS



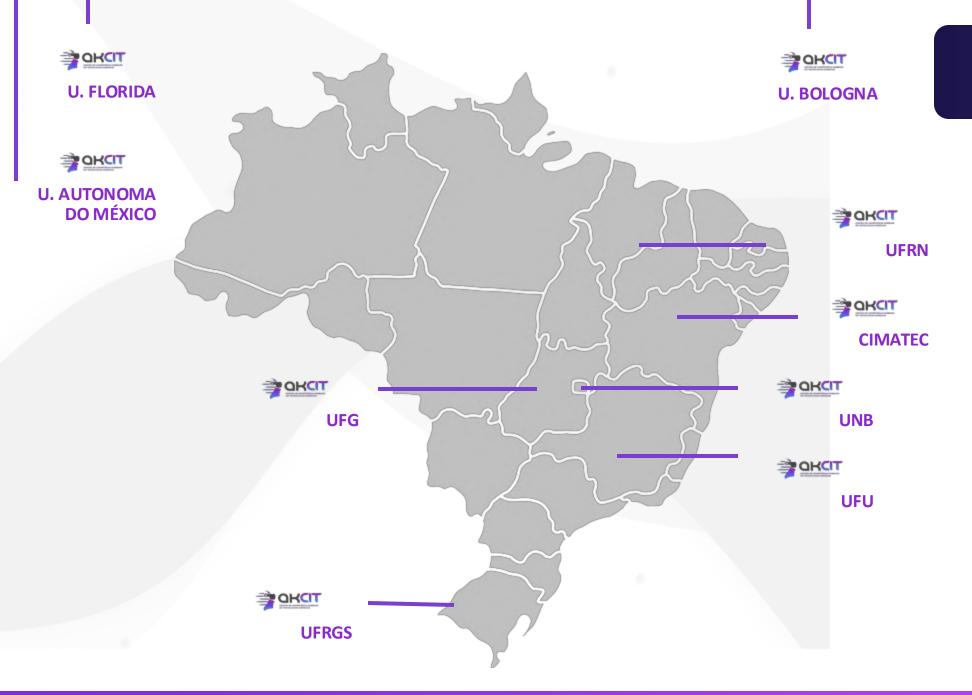












### MULTICENTRIC PD&I PROGRAM



### **INFRASTRUCTURE**











### **Apple Vision Pro**



### **Meta Quest 3**



### **ROBOTS**











### HR TRAINING AND DEVELOPMENT PROGRAM









#### **PORTFOLIO**

### **Postgraduate Specializations**

Natural Language Processing
(One class completed and two classes of 100 students in progress..)

Generative Artificial Intelligence
(Two class of 200 students is currently
underway.
Second class just started)

Innovation: Emerging and Immersive Technologies in Digital Health (One class of 100 students is currently underway)

#### **Short Courses**

**Programming Logic** 

4 courses

Natural Language Processing

4 courses

Digital Health

3 courses

Generative Artificial
Intelligence
6 courses

### **Student across Brazil**



### **Training focused on Social Impact**









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Thank You

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