UNIVERSITÀ DEGLI STUDI FIRENZE
DINFO DIPARTIMENTO DI INGEGNERIA DELL'INFORMAZIONE

DISIT
DISTRIBUTED SYSTEMS AND INTERNET TECHNOLOGIES LAB
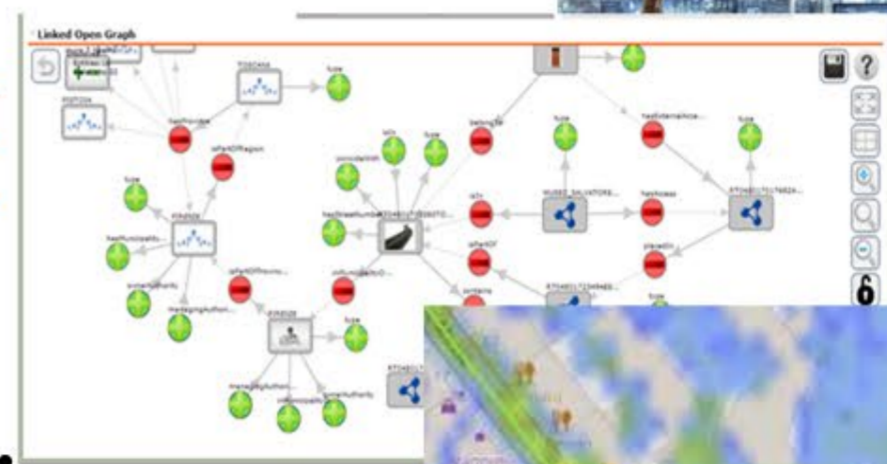DISTRIBUTED DATA INTELLIGENCE AND TECHNOLOGIES LAB

DISIT Lab
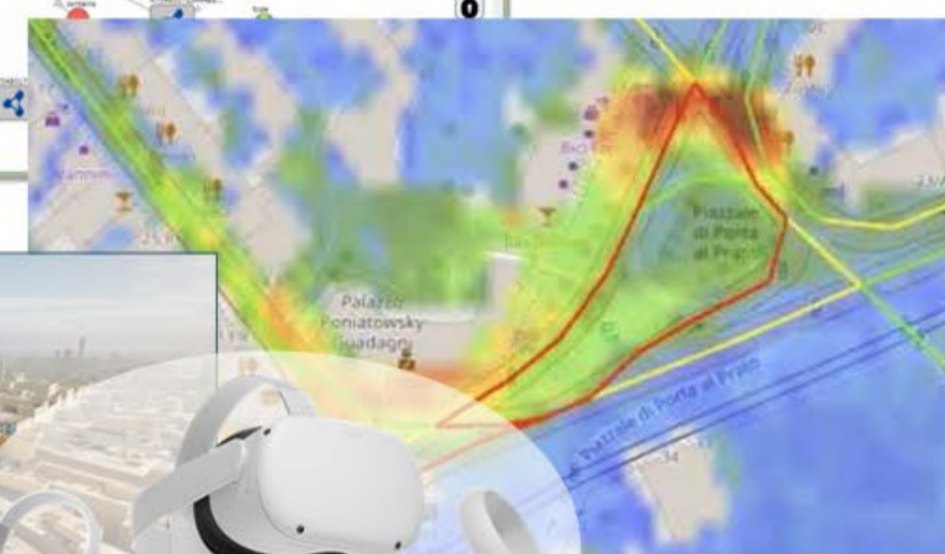HTTPS://WWW.DISIT.ORG

Research Areas:

- **Decision Support Systems, Digital Twins**
- **Big Data Architectures: Cloud, Containers**
- **Artificial Intelligence: DL, GNN, RL, GCN, CNN, ..**
- **Knowledge Enginering: ontologies, semantic reasoning, ..**
- **Neuro-Symbolic: PINN, XAI, ..**
- **Distributed Systems, Microservizi, SOA, IoT/WoT**
- **Natural Language Processing: NLP, BERT, LLM, ..**
- **System Security and Data Privacy, GDPR**

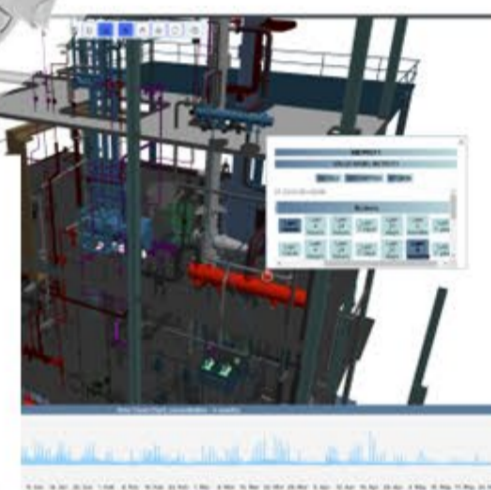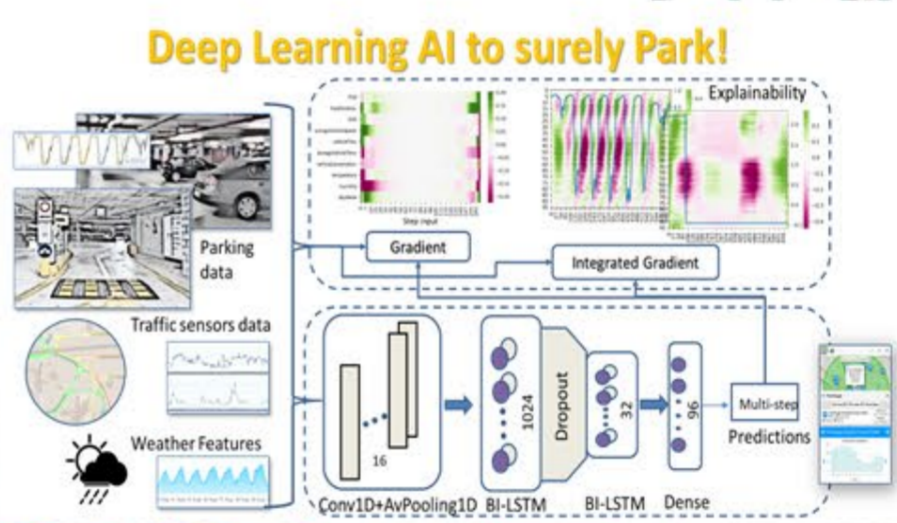## Applicative domains, operation & plan:

Predictions, Early warning, Optimization

- **Smart Cities Control & Applications**
- **Mobility and Transport Management**
- **Industrial Applications**
- **Tourism Services/Areas Management**
- **User Behaviour for Retail/City/Tourism Applications**
- **Assisstance for Legal Documents Applications**
- **Environment and Waste Management**
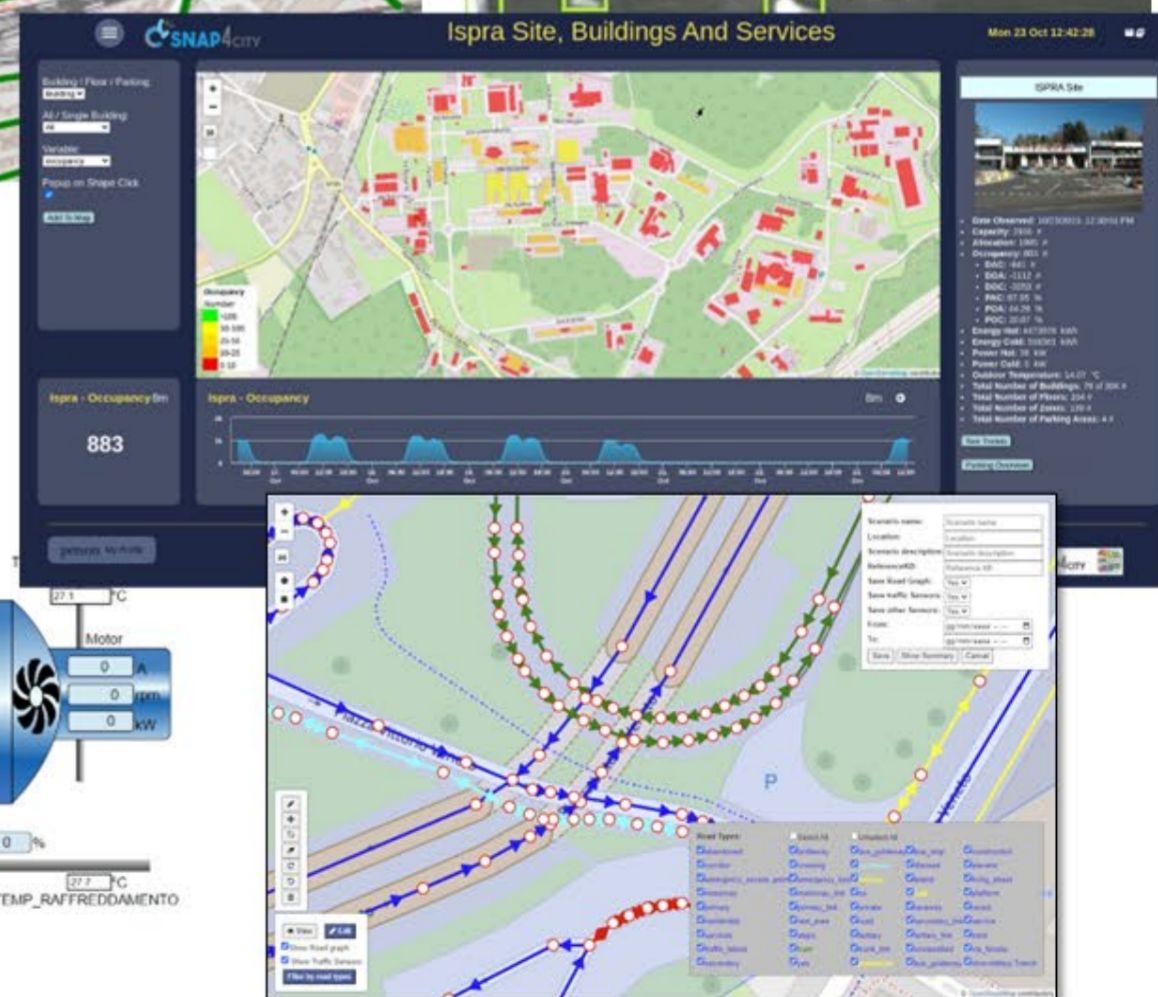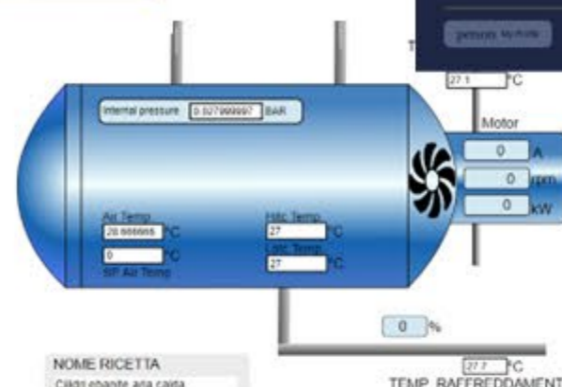- **Energy Management for Smart Cities and ICT**

Main Recent RnD Projects

- **(since 2024)**
- **ELLIE Horizon Europe**
- **ISPRA JRC**
- **CN MOST: SASUAM, OPTIFaaS**
- **FAIR PE: CAI4DSA**
- **TOURISMO Interreg**
- **AMMIRARE Interreg**
- **THE: NLP, LLM**

Deep Learning AI to surely Park!

PINN

Training

1st part	2nd part	3rd part	4th part	5th part	6th part	7th part	8th
Overview	Dashboards	IOT App, IOT Network	Data Analytics	Data Ingestion processes	System and Deploy Install	Smart City API: Web & Mob. App	Design and Develop Smart Solutions

Facilities

- **DISIT Lab, S. Marta, Firenze**
- **Snap4City platform, https://www.snap4city.org**
- **DISIT Data Center: CPU/GPU clusters**
- **Assoc.: EOSC, FIWARE, Gaia-X, OASC, AI*IA, CINI, ISO, …**

SNAP4CITY

MOST CENTRO NAZIONALE PER LA MOBILITÀ SOSTENIBILE