Trustworthy AI in cities and communities

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AI selected topics for Smart Cities

Accidents prevention

- SINIESTRALITY AND DRIVING
- Accidents in the city overlap critical driving data
- linked the Valencia App with Smart Device Link libraries on the vehicles console to send alerts.

Citizen behavioural Analysis

- Obtain map interfaces allowing simplified analysis and understanding of social activity in the city as well as projections based on activity data from social networks.
- Analyze social network data based on three essential axes: spatial location, social interaction amongst users, and emotional load of the text.

Mobility model: tourism and rain impacts

- Analysis of various data sources, including anonymous data from the mobile network, aggregated and extrapolated, showing the actual movement of groups of people in the city.
- Study of the use of bike lanes using information collected by the city in sensors deployed on the street.

Low Emissions Zones impact analysis

- POLLUTION LEVELS + ROAD TRAFFIC MONITORING
- Real time data combined with external AI services.
- Simulation and prediction of complex system's behavior.
- Rapid-response, event-base systems in complex data environment.
Enabling Factors for the Spanish TEF SCC

• **AI excellence leadership:**
  - UPV Best Technical University in Spain in Shangai ranking.
  - Flagship AI center in Spain. València Research Institute for AI (VRAIN). 120 staff members. AI Computer clusters & Research labs. TAILOR – European Network of Excellence Research Centers

• **Regional Ecosystem:**
  - 6 instances of Urban Data Platform for open innovation EU stakeholders and academia.
  - Regional Digital District creates facility for open innovation in SCC in València.
  - Valencia candidate for 100 EU Climate neutral cities.
  - UPV living lab for carbon neutral city commitment and SC.
  - La Marina EU living lab. Strong commitment with Telefónica and its cybersecurity centre in IoT and SC.

• **National Support:**
  - Coordinating Digitalisation and AI group of Spanish Network of Smart Cities (SNSC).
  - Next Generation project on National Interoperable Urban Intelligence System.
  - Spain Resilience and Recovery Funds node on Smart Cities in Valencia.
  - Coordinating the Indicators and Semantic group of the SC standardization committee in (UNE).
  - Sharing information with different smart city platforms: Rota, Logroño, Provincial government of València.

• **International Cooperation on SCC:**
  - Coordinating MAtchUP project, one of the Smart City Lighthouse projects (SCC-01-Horizon 2020).