



Aveiro Tech City Living Lab **AI-Powered Platform for Smart City Issue Detection & Resolution**

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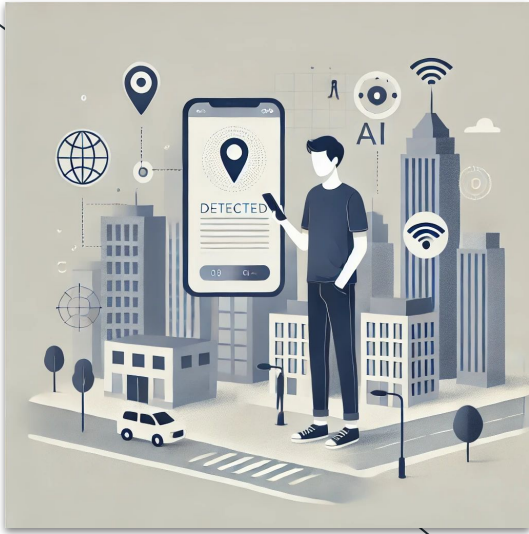
25.02.2025

Smart City Problems

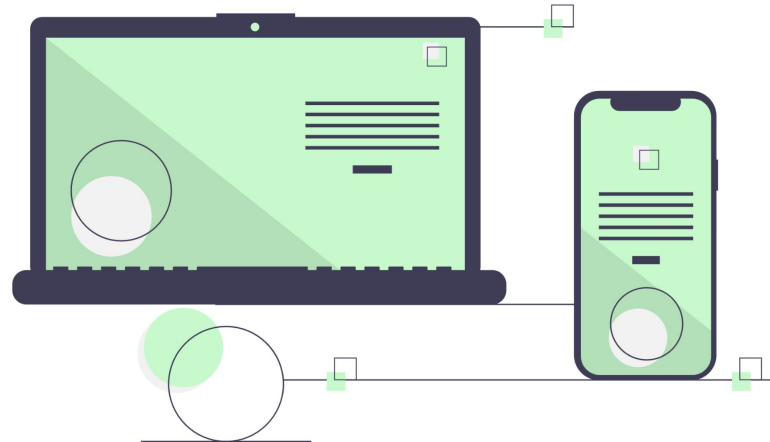
- **Manual incident reporting** – Citizens report incidents manually, often through inefficient channels like phone calls or emails.
- **Lack of real-time validation** – Authorities have no automated way to verify whether an incident has been resolved.
- **Unstructured issue management** – Authorities lack an organized information system to track and prioritize the most urgent and recurring urban issues efficiently.



Our Solution

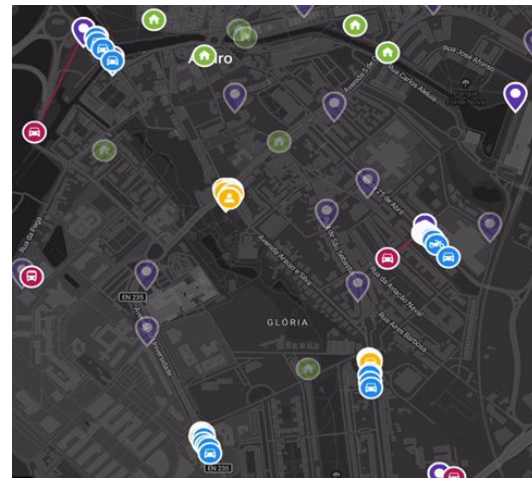
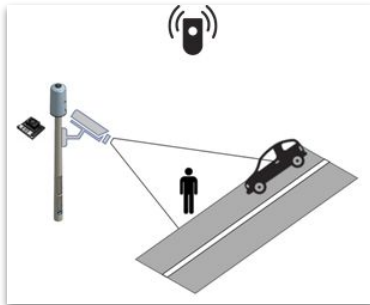


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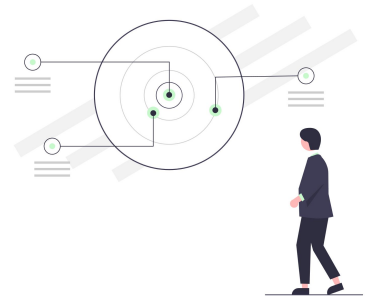
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- **Detection** – Identifying resolved issues and finding new ones in real time.
- **Integration** – Connecting with the ATCLL infrastructure for event persistence.
- **Validation** – Testing with the autonomous vehicle (PIXKIT) in a controlled environment.



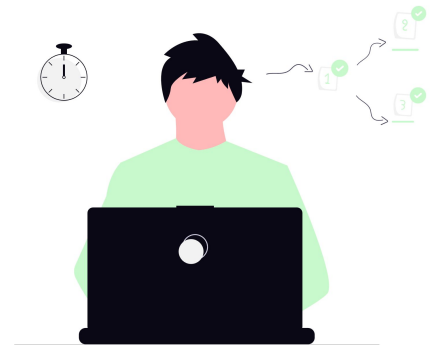
Goals

- **App** – Practical city incident reporting for regular users.
- **Integration** – With the Aveiro Tech City Living Lab infrastructure.
- **Platform** – Web interface required for the city control center.
- **AI** – Enhancing user experience through intelligent automation.
- **Monitoring** – Ensuring effective system performance and maintenance.
- **Documentation** – Providing comprehensive system guidelines.

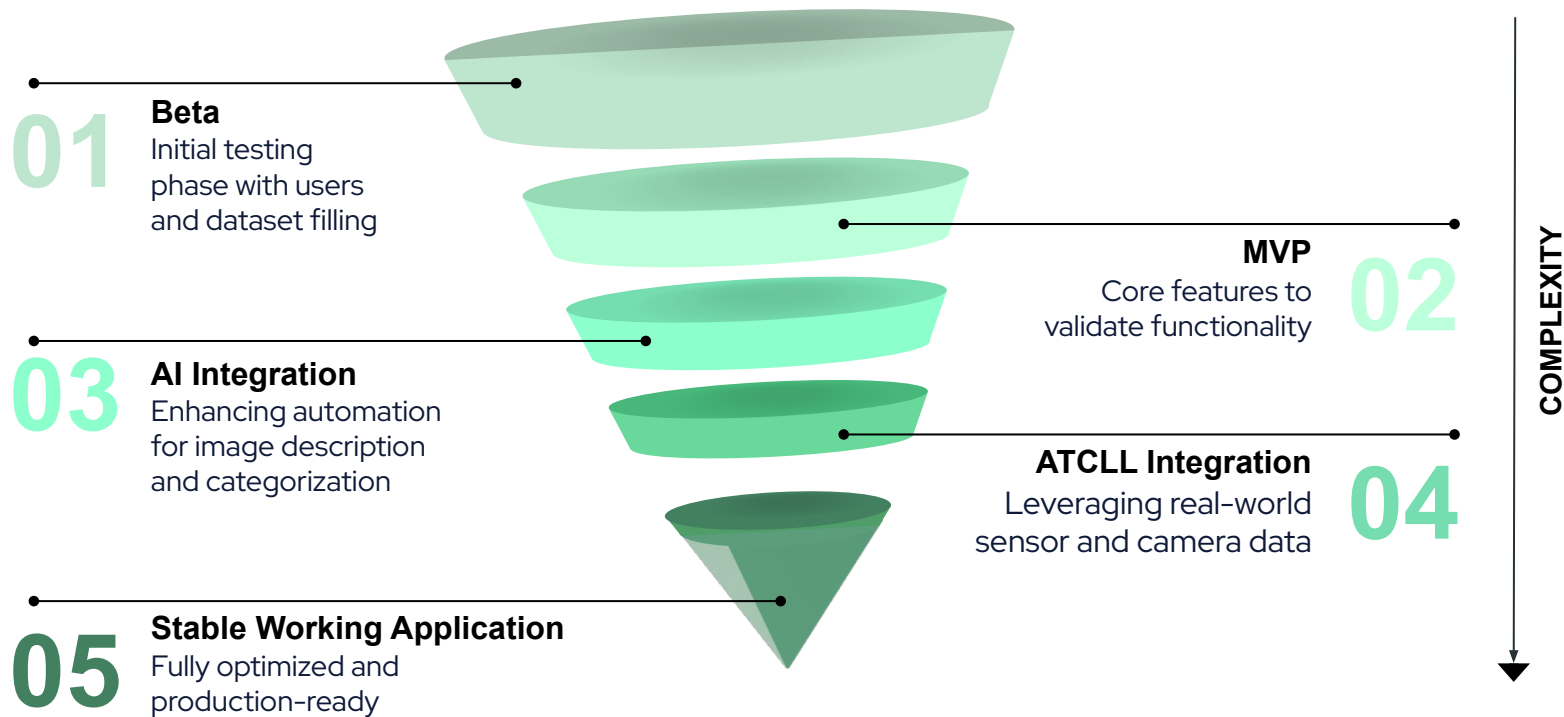


Potential Roadblocks

- **Complexity** – Challenges in AI integration.
- **Integration** – Connection with the ATCLL infrastructure.
- **Timeframe** – Limited development and testing period.
- **Privacy** – Data security and compliance.
- **Uncertainty** – Potential unforeseen technical issues.



Roadmap to a Stable App



Calendar

Week	Date	Description	State	Deadlines
1	11/02/2025	M1 - Requirements, lifecycle objectives and calendar for the project		
2	18/02/2025	M2 - Mockup, Start Architecture and beta application		
3	25/02/2025		Setup	Presentation
4	04/03/2025			
5	11/03/2025	M3 - Upgrade of Architecture and full application/website		
6	18/03/2025			
7	25/03/2025			Checkpoint
8	01/04/2025	M4 - AI-powered clustering, descriptions and classifications		
9	08/04/2025			Presentation/ Prototype
10	15/04/2025		Start AI	Presentation/ Prototype
11	22/04/2025	M5 - ATCLL integration for detection and correction		
12	29/04/2025			
13	06/05/2025			Checkpoint
14	13/05/2025	M6 - Stable working application, with monitoring.		
15	20/05/2025			Checkpoint
16	27/05/2025		Docs	Demo
17	03/06/2025	M7 - Prepare final report and documentation		Final Presentation
16	27/05/2025			Poster Presentation

Communication Plan



Technical Communication



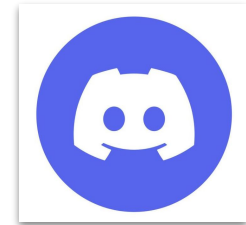
GitHub – Version control and collaboration

GitHub Projects – Task management

Team Communication



Slack – Communication with supervisors



Discord – Communication with the group

Questions?

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