Challenge

Urban Green Spaces – How might we leverage technology to optimize the usage of existing green spaces in urban areas, ensuring they cater to diverse activities and user needs?

First Ideas

Mobile Applications:

- serves as a virtual guide to urban green spaces
- Users can access information about park amenities, events, and activities
- provide feedback and suggestions
- incorporates features such as interactive maps, virtual tours, and user-generated content to enhance the park experience

Augmented Reality (AR) Experiences:

- integrate AR technology into green spaces to provide interactive experiences for visitors
- AR markers placed throughout the park can offer historical facts, environmental education, or interactive games that encourage exploration and engagement

Digital Signage and Wayfinding (could be part of an app aswell):

- Install digital signage and wayfinding systems within green spaces to provide information about park features, events, and activities in real-time -> enhance visitor experience and help them navigate the park more efficiently.

Collaborative Partnerships (could be part of an app aswell):

- Foster partnerships with local businesses, community organizations, and educational institutions to offer a wide range of activities and services within green spaces.

Research

To-Do: Find similar projects and inspiration

- GreenSpaces is an integrated and geo-referenced software that efficiently organizes and documents the care and maintenance of urban greenery.
  - GreenSpaces manages all elements of green spaces in a geographical database. Measures, messages, documents and photos can be assigned to these objects.
  - With the GreenSpaces Mobile app, users can enter data directly in the field. With the help of badges or RFID tags, it is possible to identify the objects in the field and ensure the traceability of all activities. (*https://www.r3gis.com/de/greenspaces*)
- LIFE URBANGREEN is a European project that developed a digital platform to improve the management of urban green areas (UGAs).
  - Platform uses a combination of data from sensors, satellite imagery, and weather forecasts to provide city managers with insights into the health and usage of their green spaces. This information can be used to optimize maintenance schedules, target irrigation more effectively, and plan for the future development of UGAs.

  LIFE URBANGREEN project closure – LIFE Urbangreen

What we should know about Neuperlach:

- around 65,000 residents
- In some parts of Neuperlach, there are social problems associated with youth and drug-related crime. The proportion of foreigners is high and the integration of foreign citizens does not work smoothly everywhere, which manifests itself in partial ghetto formation.
- Ostpark:
    - 56 hectares large
    - Sport: In winter, the Ostpark is a popular place for tobogganing. Otherwise, you can also play table tennis or volleyball here and, of course, go jogging.
    - Leisure action: The East Ice and Fun Sports Center is embedded directly in the Ostpark. There is also a skate park here, and the Michaelibad is directly adjacent to the park.
    - Children: The large Maulwurfhausen adventure playground is located in the far east of the park
    - designated barbecue area, which is very popular on summer days.

Questions & Plan for Neuperlach visit:

1. Get a feeling for location, take photos for documentation purposes (vegetation, infrastructure, etc.)
2. Identify green space areas (lawn spaces, benches, etc.)
3. Identify how the spaces are used:
    a. How are the residents currently using it?
    b. What events already exist?
    c. What infrastructure already exists?
    d. What are the current limitations?
4. Questions for residents:
    a. Are they actively using the park and if yes what for?
    b. What keeps them from using the park more?
    c. What events did they partake in, and did they like it?
    d. Would they be interested in using the park for social, sporting or cultural events if possible?
5. Identify Stakeholders & Key People
    a. Who are the stakeholders in the community who could help with organizing events, etc.?
    b. Who is already using the park for public events and who is the organizer?