**Prototype Ideas for hackathon: Co-design session 3**

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| **#** | **IDEA** | **DESCRIPTION**  | **GROUP NAME**  |
| 1 | Smart subway doors  | Sensors that would keep the doors open if people are in the process of crossing the threshold to exist or enter. | Challenging Hedgehogs  |
| 2 | Safety Beacons  | Beacons placed a few feet from TTC stair entrances/ construction on sidewalks that would sense presence of W/C, canes, service dogs etc and announce the stairs coming up, and provide instruction on which direction to walk if the stairs need to be avoided. A way to notify pedestrians about temporary things on their way like garbage bins, planters, constructions, etc | Challenging Hedgehogs  |
| 3 | Talking elevators | Elevators that would announce themselves when arriving so people know which direction to move to get on, and voice activated elevator control + buttons lower to the ground and on the sides of the elevator for W/C users. | Challenging Hedgehogs  |
| 4 | Instruct app  | Information on W/C accessible subway stations and provide automatic update on location of elevators and ticket taker machines when entering the station. Provide navigation in real time ( updates based on construction or accidents)when people get off transit - includes unlimited data connection for GPS for people with disabilities. App integrated with "Be My Eyes" and "AIRA" Options/Features: 1. Construction/road closures and alternative route info to navigate these situations. 2. Information about characteristics of route taken - width of sidewalk, events happening, high/low density, curb cuts etc. 3. social media feed to receive updates on city wide events or emergencies 4. Integrate "In Time Newsfeed" to receive updates from other citizens, and be able to enter updates yourself.  | Challenging Hedgehogs  |
| 5 | Smart bike lanes | Distinct indicators - raised boundary between road and bike lanes, and signs facing sidewalk indicating the bike lane with beacons installed along the lane that announce where the bike lane begins. Automatic red light flashes and announces "safe to cross" when senses pedestrians needing to cross. Includes foot rest for bikers | Challenging Hedgehogs  |
| 6 | Bike notifier | An app for easily crossing the bike lane | Challenging Hedgehogs  |
| 7 | Wayfinding in green space | Pathway through grass for wayfinding | Challenging Hedgehogs  |
| 8 | Bike on cars | an easier way to get your bike to buses or other public vehicles or AVs, so you can easily hop in and out with your bike | Challenging Hedgehogs  |
| 9 | Auto payment | a way to automatically pay for your transit fare  | Challenging Hedgehogs  |
| 10 | Intelligent Subways | Automated Subway train movement, where doors are always stopped at the same position. This way walls can be built to prevent falls onto tracks. Subway doors align with doors on wall, which will only open when subway doors open. | Challenging Hedgehogs |
| 11 | All badged in system  | Access app/ or a key fob sets up accessibility preferences- internal/external threshold settings (temperature, voice activation for doors, timing of doors, provide direction to your destination) call for help settings (a way to broadcast help messages), to connect to other volunteers who want to help the individual - it also identifies the person as they move through the building so they don't need an ID card The app can also call for accessibility vehicles, provide information about the accessible routes | Assorted Barrier Busters |
| 12 | Accessible elevator | Voice activated, Buttons are on the left or right side of the elevator, no turning around is needed, buttons could be voice activated, the language can be changed, screen provides information about where you are going, numbers are raised/braille | Assorted Barrier Busters |
| 13 | [**Accessibility interstellar vehicle**](https://cities.inclusivedesign.ca/hackathon/prd/self-driving-cars-for-sub-emergency-medical-visits/) | accessibility vehicle called by the app to come to the curb to bring the person into the building | Assorted Barrier Busters |
| 14 | Safe path | A safe way from the street car to the building equipped with a contrasting strip with illuminated edges and textured gradients, and beeping. It is also connected to the beacons for navigation. Braille strip with beacon and app ( see other related ideas: tactile strips - group Challenging Hedgehogs etc) | Group # 2 |
| 15 | Smart elevators | can detect people and adjust the door timing and the buttons placement, has buttons at the foot level and voice welcoming people and announcing floors, allows voice command or button controls  | Group # 2 |
| 16 | Smart indicators | Voice announcement or vibration that indicates transitioning in and out of entrances of buses, streetcars, elevators or the beginning of a flight of stairs or escalators. stairs and curbs edges have a specific texture. railings also could have a texture. | Group # 2 |
| 17 | [**Level Drop Warning Plate**](https://cities.inclusivedesign.ca/hackathon/prd/rumble-pavement/) | Warns people that a ramp/drop is approaching, has haptic features, with lights and a groove for canes. it's heated and is hollow | The A Team |
| 18 | Escalator Identifier | Identifies the direction an escalator is going and where the escalator is | The A Team |
| 19 | [**Tactile indicator at curb cuts**](https://cities.inclusivedesign.ca/hackathon/prd/rumble-pavement/) | A plate on the ground that indicates the change of the level. It has a hollow space that helps people who are using cane for navigation, it also includes auditory, visual (colorful with high contrast), illuminated, aromatic, vibrated indicators. it has bumps and grooves for wayfinding | The A Team |
| 20 | [**AI building mapper**](https://cities.inclusivedesign.ca/hackathon/prd/ai-floor-describer/) | helps you navigate a building that you have not been into before. It describes your environment, provides internal directions to a room, to an elevator, to other accessibility services.  | Cats and Dogs  |
| 21 | Elevator Alert | Notifies you which elevator is coming | Cats and Dogs  |
| 22 | Wayfinding robot | Robot with screen and light accompanies the individual and guides them on their route - stays within 3 feet of person, voice/ASL/ text description of the route. Can be programmed by individual users | Cats and Dogs  |