

Internet of Things workshop

SMART Mobility @ CERN

Site Management and Buildings CERN Mobility @ CERN

- CERN mobility working group (2016)
 - Representatives from all departments
 - Chaired by CERN mobility coordinator
 - Develop CERN mobility plan
- CERN mobility services
 - Shuttle
 - Car fleet
 - Bike fleet

CERN Masterplan 2030

Mobility general objectives

M1 Optimiser l'offre et la gestion du stationnement.

- M1.1 Favoriser un taux de rotation en phase avec les usages dans les zones desservies.
- M1.2 Mettre en place une gestion différenciée des parkings longue, moyenne et courte durée.
- M1.3 Privilégier l'utilisation des zones de stationnement pour les usages professionnels.
- M1.4 Envisager les parkings en étage (aérien, enterré) dans le cadre de nouveaux développements.

Parking management

Communication

M2 Promouvoir les offres alternatives de transport inter, et intra-sites.

M2.1 Encourager les déplacements en mode doux (piétons/vélos) par des mesures d'aménagement et d'incitation.

M2.2 Favoriser le covoiturage et augmenter l'attractivité et l'offre des navettes.

M2.3 Renforcer et diversifier l'offre de véhicules en libre-service.

M3 Favoriser un accès efficace et fluide aux sites du CERN.

M3.1 Optimiser la fluidité des accès au CERN.

M3.2 Améliorer la hiérarchie du réseau routier à l'intérieur du domaine CERN.

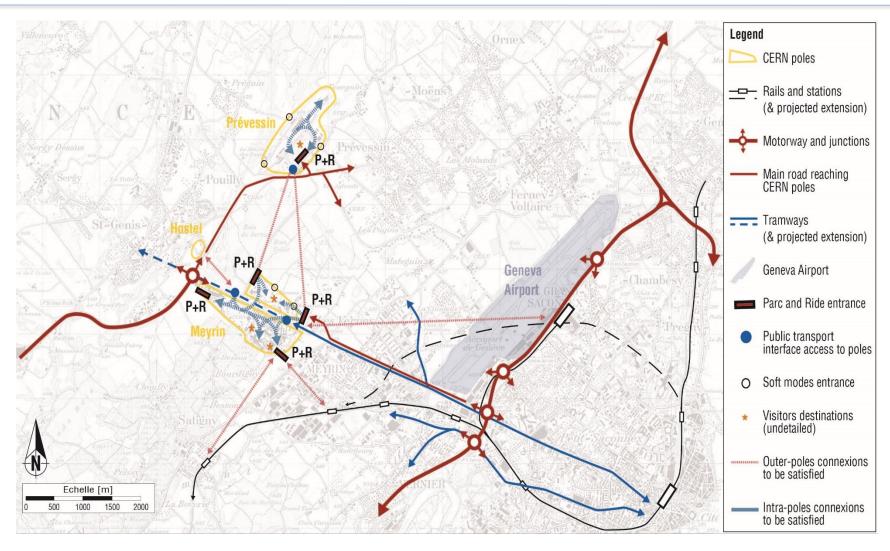
M3.3 Favoriser les synergies avec les services de transport public et les initiatives d'offre d'infrastructure de transport.

Infrastructure



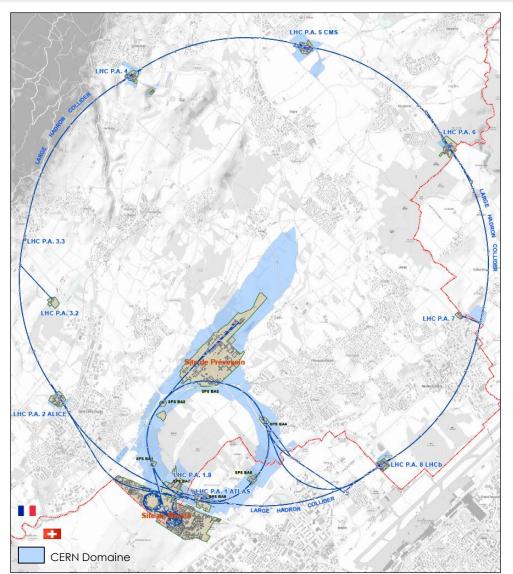


Multi-modal concept 2030





Key figures









Key figures - infra



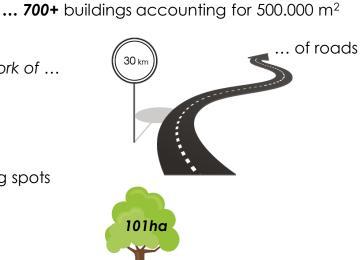




A network of ...



6 180 parking spots



CERN Domaine

... of green spaces



Key figures - users





10 000 professionals coming on site daily 150 000 visitors annually

Modal share ...





























... aspiration

Ease of use Sharing

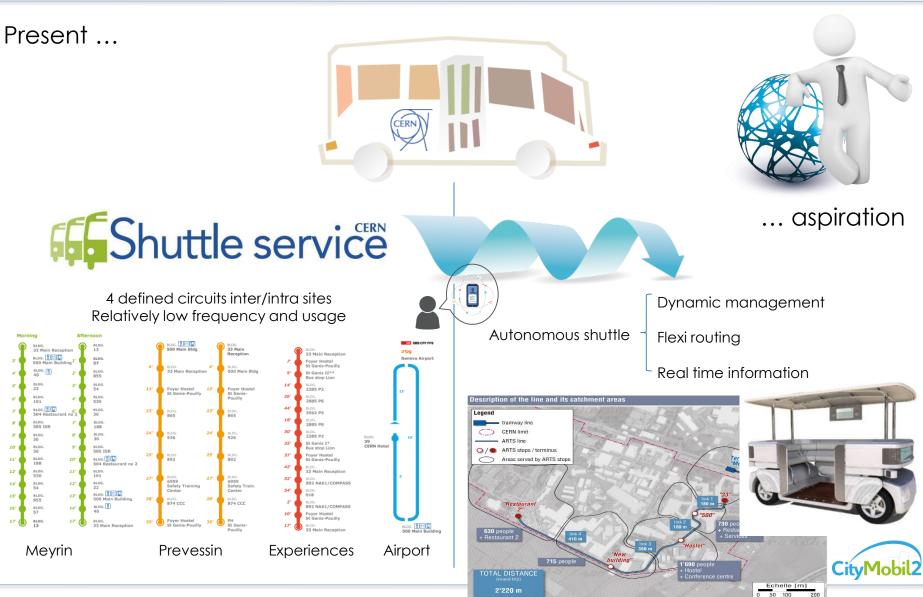
Availability Community

Connectivity Multi-mode





Shuttle





Bikes

Present ...







Bike Rental Service

600+ bikes

Bike assigned to individual

Free service outside summer

Summer = 1 chf/day

Low usage in particular outside summer period

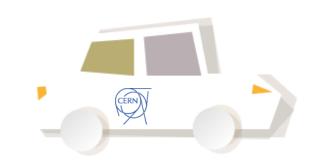
Limited demand being met during summer





Car fleet

Present ...





... aspiration

✓ Increase car usage

✓ Improve service level



√ 10% Car Sharing



✓ 90 % assigned to



Individuals



Low utilisation rate...





Site Management and Buildings Tracking-Monitoring

Present ...

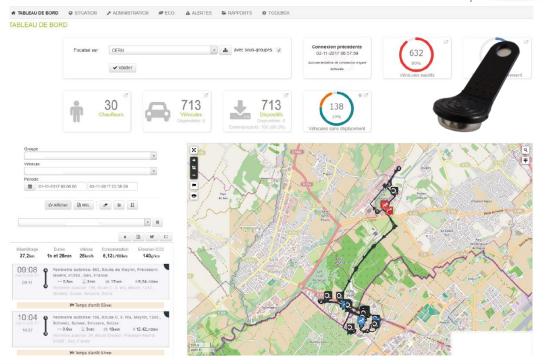


CERN GPS tracking on cars





... aspiration

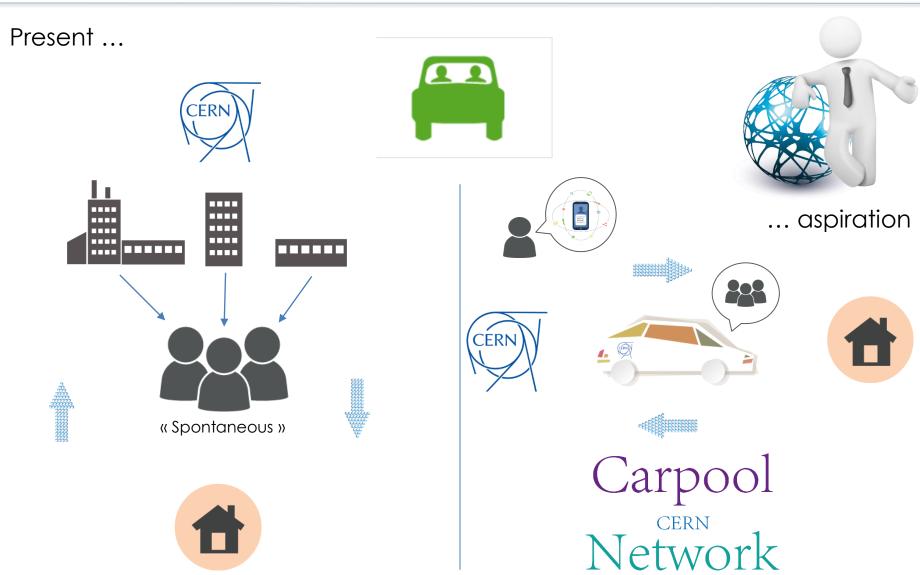




One card fits all services



Car pooling



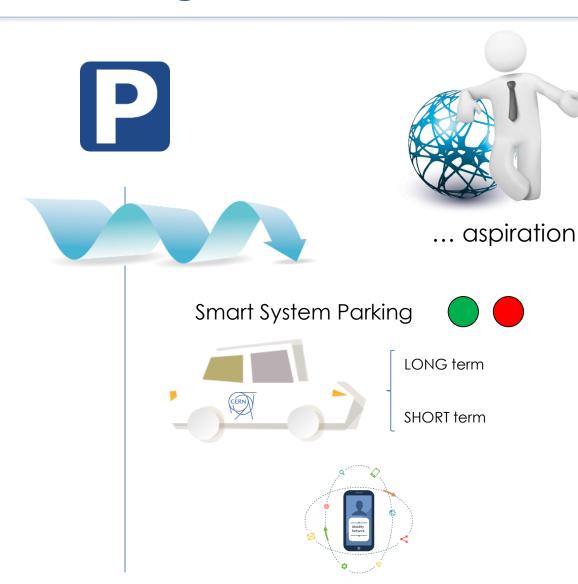


Parking

Present ...

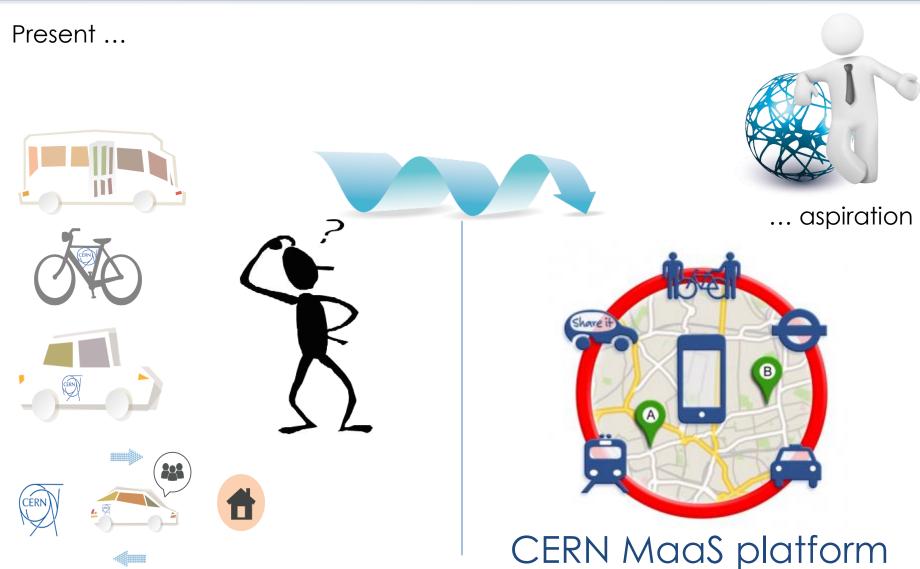








Mobility as a Service





Many thanks for your attention!

