CERN's Campus Services
CNPEM visit

Laetitia Lejeune & Cédric Garino SCE-SSC

CERN, 4th of December 2023

Agenda

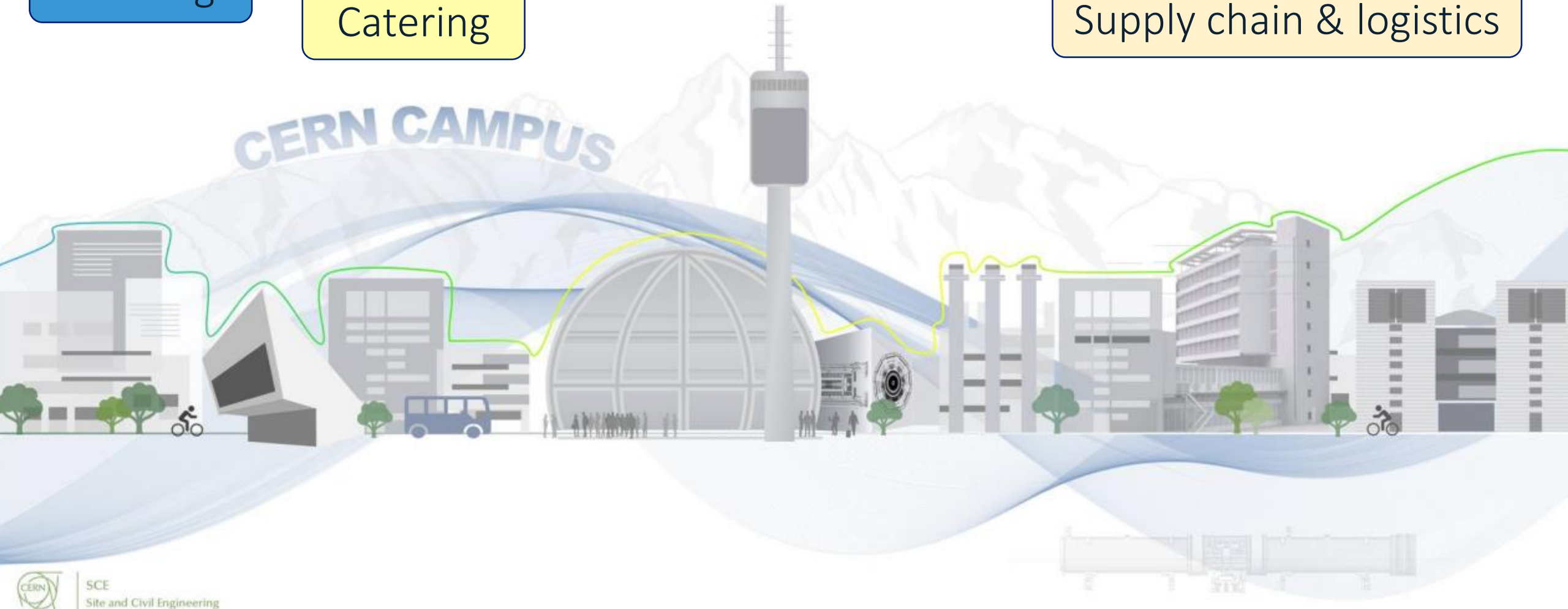
Housing

Catering

Mobility

Waste management

Supply chain & logistics



SCE
Site and Civil Engineering

667 BUILDINGS
3 RESTAURANTS
450 HOTEL ROOMS
17.3km TECHNICAL GALLERIES
64km TUNNEL
9000 PERSONS/DAY
8500+ OFFICE WORKING STATIONS
54km ROADS
111ha GREEN SPACES
400ha FIELDS & FORESTS
625ha TOTAL AREA

Context: Services & Supply Chain group

Provides the CERN's community with **high standard campus experience** and **optimal industrial supply chain execution** by offering the following **rationalized, efficient, and transparent** services:

installation

housing

catering

mobility

shipping

storage

mail

cleaning

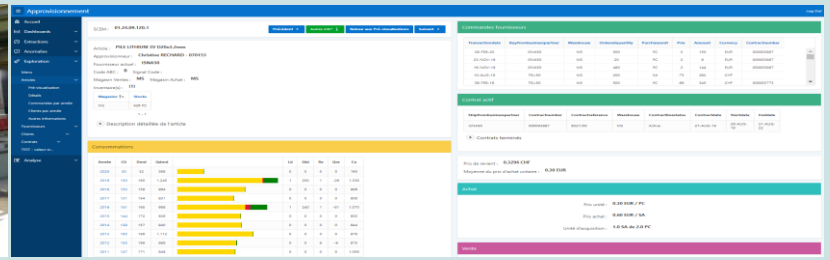
waste management

goods reception

internal distribution

central stores

raw materials



replenishment

sales and recuperation

referencing

Housing

Hotels on Meyrin Site

Building 38 – 206 rooms
+ Shared kitchen, laundry room, vending machines

Building 39 – 120 rooms
+ Reception shared kitchen, laundry room, vending, infant feeding room

Building 41 – 98 rooms
+ Laundry room, vending machines

3 Shared kitchens (B38 & B39) – 78 seats
+ Fridges, stoves, ovens, utensils, selective waste sorting, etc.

3 Laundry rooms (one in each building)
8 washers & 8 dryers in total

Outside CERN

Foyer Residence Schuman

2 Buildings allocated to CERN – 151 rooms
Fiber optic internet connection, lounge room, shared kitchen (1 per floor for 10 bedrooms), laundry room

CERN Apartments

13 fully-furnished apartments
Sub-rental from 1 to 6 months

Catering

"CERN's catering strategy and objectives are to provide, at a reasonable price, a range of options answering the catering needs of every person entering the CERN site. The term catering covers all forms of food and beverage in the broad sense."

- OBJECTIVE: Increase the offer of vegetarian/vegan meals up to **50% of the total offer**

- OFFER
  - 3 **restaurants** (R1, R2, R3), self-service + **service à table** (Glassbox @ R1; Brasserie @ R2) + Kiosk – *~2800 meals/day*
  - 8 **cafeterias** (Meyrin: 6, 13, 30, 40, 54 / Prevessin: 864, 774)
  - 70 **vending machines**
  - Water fountains (~160 connected with filter, and ~220 water bottles distributors)
  - **Click & Collect**
  - **Catering** for corporate and private events

Catering: Recent Projects

➢ R1 renovation

➢ Counting systems webpage (R1, R2, R3)

- ❖ All 3 restaurants are now connected to the same system (Technis)

➢ SGW Big Bang Café

- ❖ Opening to public on October 8 / Tue-Sun 8am-5pm

➢ New / Alternative offers

- ❖ Hot savory breakfast back at R1

- ❖ "No Gaspi" initiative: Unsold daily menus and products closed to expiry date are sold at half price from 14:30, in R1, R2, and B40.

- ❖ Glacier des Particules – Pilot:
  - An electric ice-cream cart is located on the Esplanade des Particules since September 4, until the end of October, depending on the weather
  - Artisanal ice-creams and vegan sorbets
  - Open from Tuesday to Saturday, starting at 12:30

SCE Mobility framework: Strategy

MANDATE

The CERN Site and Civil Engineering (SCE) Department is responsible for providing and maintaining the infrastructure and services necessary to ensure the mobility of all persons entering the Organisation in a transparent, efficient, and sustainable manner.

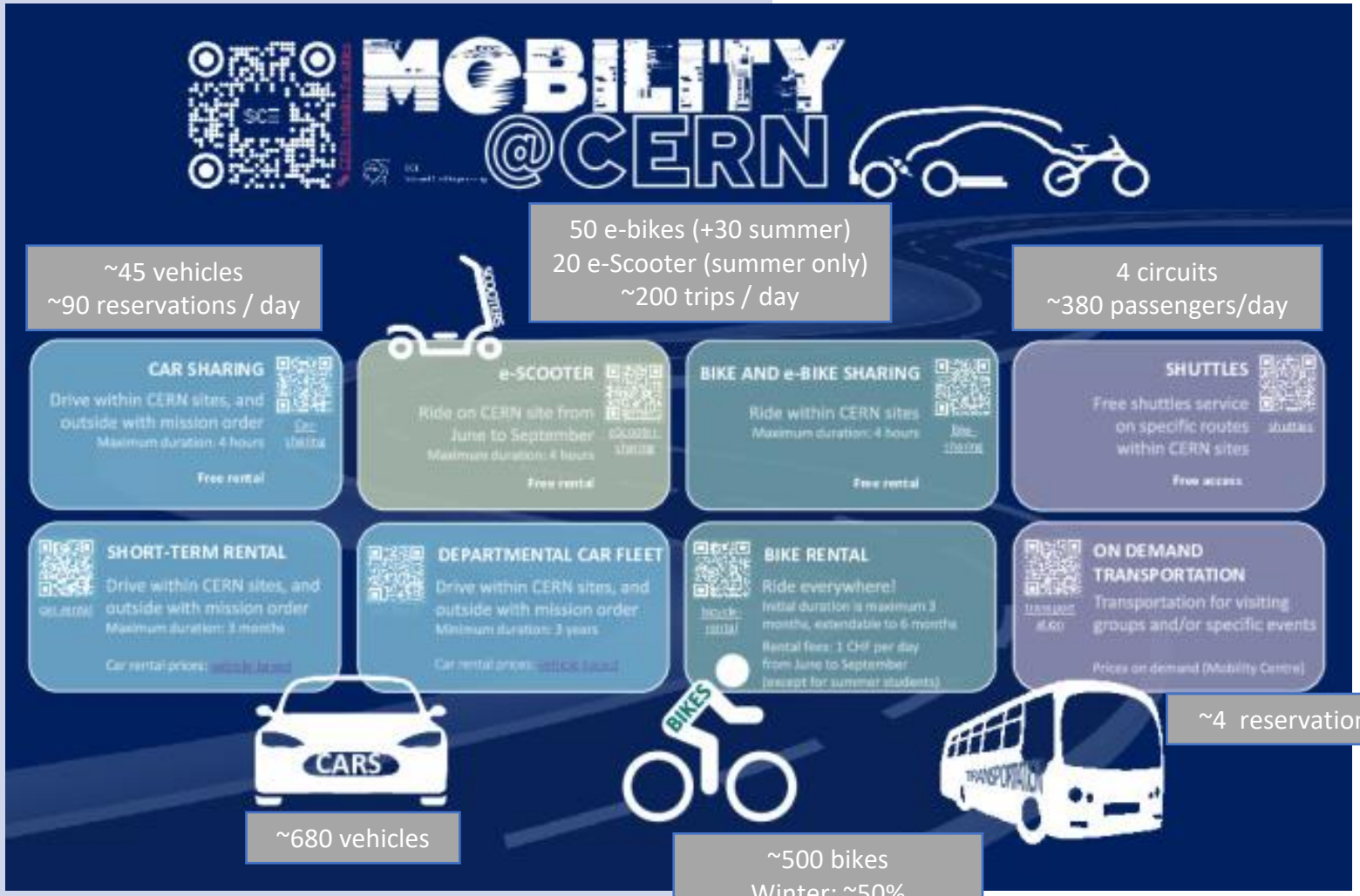
LONG TERM OBJECTIVES

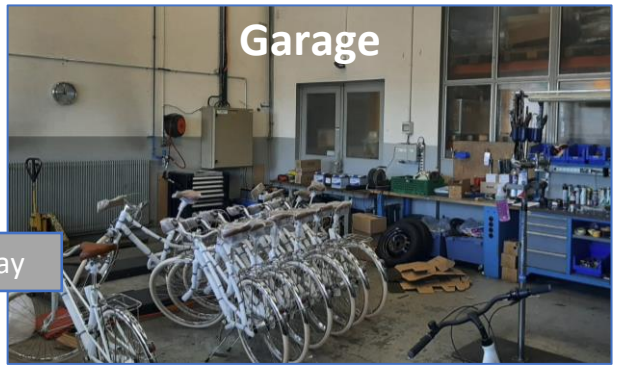
- **Adapt the supply of work vehicles and the supply of parking** to the constraints of the different types of users and demand.
- **Promote accessibility to public/shared transportation** and monitor the **improvement** of the **accessibility** to the CERN sites **by bicycle**.
- **Strengthen the transport service offer for inter-site travel**.
- **Encourage soft modes of transport** by enhancing and improving dedicated infrastructure.

STRATEGIC PRINCIPLES

1. **Focus on people needs**.
2. **Integrate transport modes**. Adapting to the means used by the community and proposing modal services that can be combined together increasing flexibility.
3. **Adaptable to the future needs of the organization**.
4. **Sustainable and eco responsible** while respecting the individual needs.
5. **Communicate, cooperate with local actors, and involve the community.**

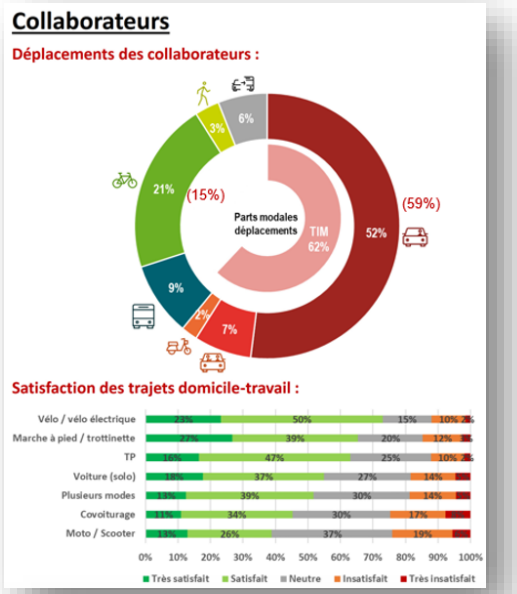
Mobility portfolio & infrastructure





Mobility ongoing actions (highlights)

- Fleet optimization
  - Reduction -> -25%
  - Electrification -> 50%/50%
- Bike shelters, parkings and roads
- Carpooling



CERN Waste management- Strategy

MANDATE

This service is responsible for the collection and disposal of conventional & dangerous waste (excluding radioactive ones) from the CERN's sites.

LONG TERM OBJECTIVES

- **Embrace the environmental transition** laid down in CERN's Environmental Protection Strategy and CERN's Masterplan 2040, fully aligned with priorities of CERN, communities surrounding the sites and Geneva international organizations. **Become an eco-exemplary campus**.
- **Maintain full compliance with France and Switzerland regulations** while operating waste management and waste disposal. Be an Align priorities to long-term plans of host states and local authorities.
- Per producer category (campus, industry, work site), **reduce the total quantity of waste** generated by CERN, **increase reuse and recycling rates**.

STRATEGIC PRINCIPLES

1. **Adhere to 3 'R's: Reduce, Reuse, Recycle.**
2. **Integrate internal and external actors** in a holistic and sustainable waste management flow.
3. **Consolidate equipment** and infrastructure related to waste management.
4. **Implement best-practices of the industry** and optimise waste management operations.
5. **Steer the service based on data.**
6. **Communicate**, **cooperate** with local actors, and involve the community.

CERN Waste management- Service overview

Regular collect tours

- Other wastes (incinerable) x2 x1

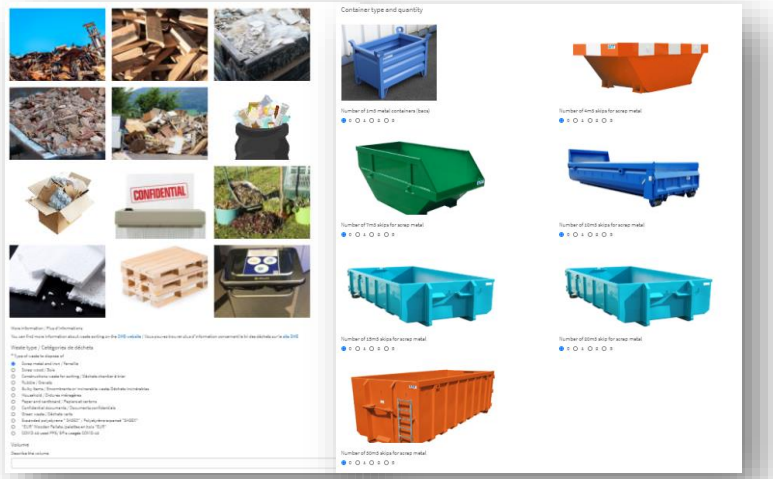
Everything which cannot be sorted, incinerable

- Paper/carboard x2 x1
- Metals x2 x1

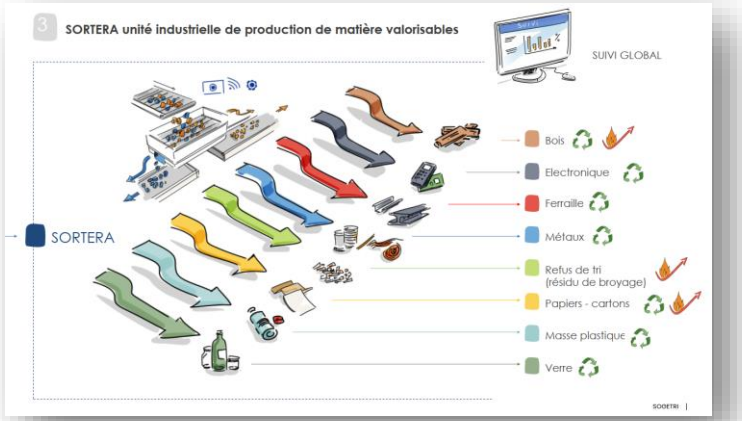
Recycling areas :
- PET, aluminium cans
- Glass
- Nespresso capsules

Others:
- Organic (R1 & R2) x3 / week
- Printer toner cartridges
- Scrap wood (near buildings) ~1/month

On-request skips

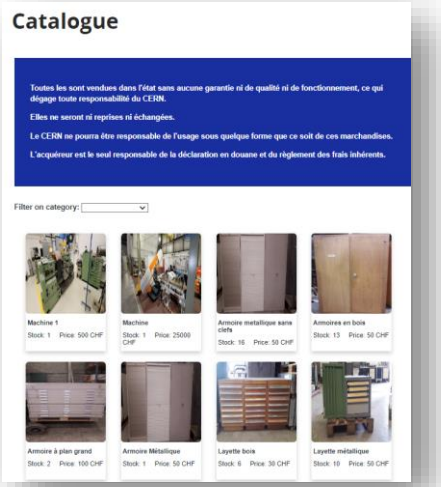


Treatment



Recuperation & sales

- Any equipment or material with value can be bring or transported there
- Containers for electronics (blue) and computer equipment (red)
- Containers for metals (stainless steel, aluminium, copper, steel, brass, lead, copper cables, aluminium cables)
- All batteries



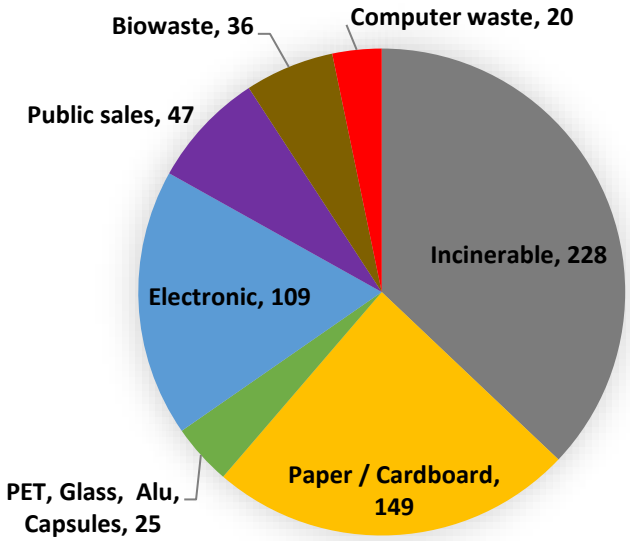
Special wastes

- Upon transport request
- Battery collection points
- Chemical & laboratory wastes, neons & all types of lamps, etc…

CERN Waste management- Key figures

2022: 614 tons of waste from Campus

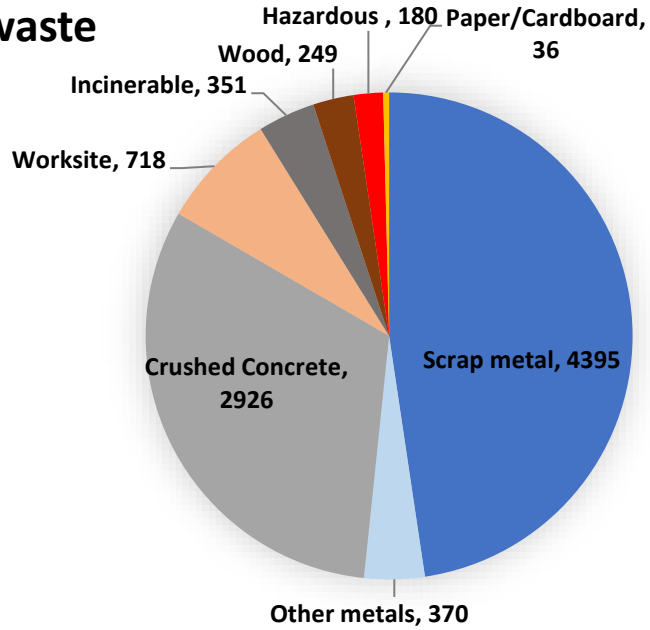
Campus waste is all waste from users present on site. It mainly concerns waste related to office activities as well as catering, household and hotel waste.



Values expressed in tons

2022: 9’225 tons of waste from industry and work site

Waste from worksite and industry includes all waste associated with research,and construction. The majority of this volume is due to the renewal of buildings and experience (Metals and Concrete).

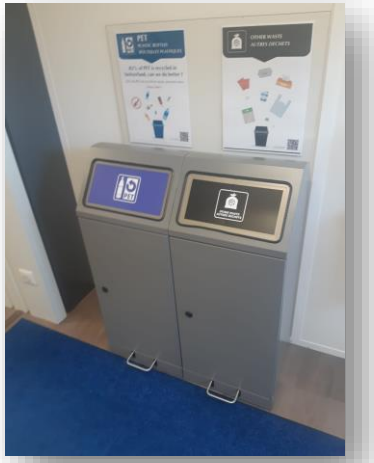


Values expressed in tons

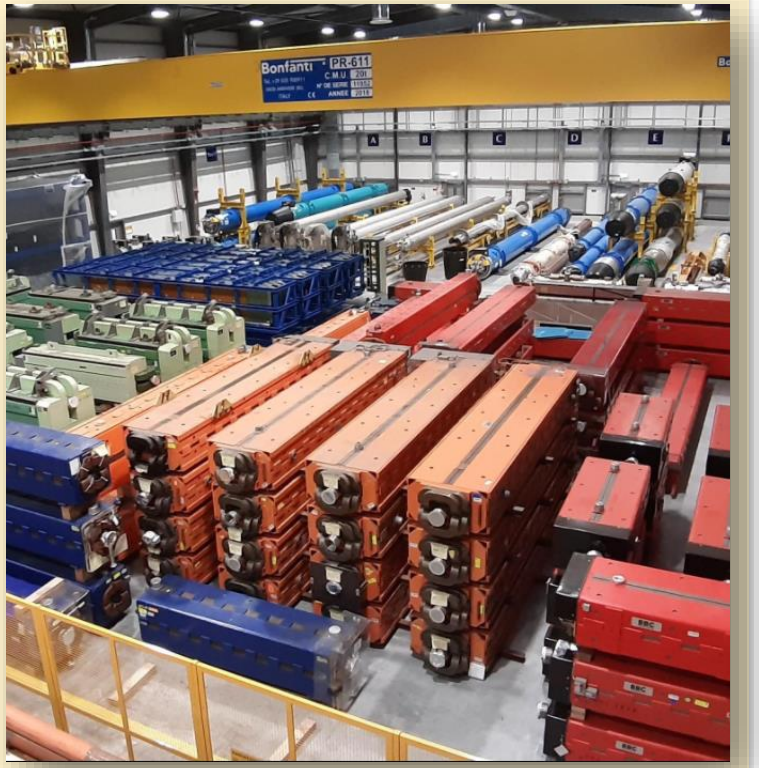
CERN Waste management- On-going actions

- Electro-composter
- Visual harmonization
- Infrastructure
- KPIs & objectives

- <u>Maintain a recycling rate</u> (product and material recovery) within the objectives of the Canton of Geneva (currently 80%)
- <u>Increase the tonnage of product</u> recovery (reuse, reemployment, repurposing) by 10% between 2025 and 2030
- <u>Reduce the tonnage of campus waste per person on site</u> by 5% between 2025 and 2030



Supply Chain & Logistics: Strategy



MANDATE

Provides CERN's community optimal logistics services associated to goods/material/mail inbound and outbound flows, long-term storage & CERN stores management (referencing, replenishment and warehousing operations).

VISION

Professional and integrated Supply Chain to support all CERN's community advancing the scientific program.

LONG TERM OBJECTIVES

- **Simplify** material request and fulfilment experience for all CERN's community & reshape distribution of demand fulfilment routes.
- **Reduce inventory value and contain operational costs**.
- **Avoid the construction of new storage buildings in the future.**
- **Reduce environmental impact of all SC activities**. Feed circular economy.
- **Leverage the added value of a central stores service through a higher degree of collaborative integration with key partners** (internal and external with suppliers).
- **Limit duplication of local storage service resources.**
- Maintain a **healthy, safe and pleasant working environment** to sustain high team engagement.

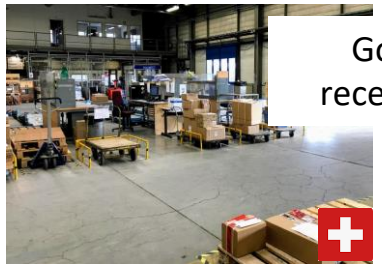
STRATEGIC PRINCIPLES

1. **Collaboration:** Foster goal alignment aiming for structured collaboration and create dedicated partnerships with key stakeholders.
2. **Process & organisation.**
3. **Technology:** Leverage technology and digitalization to modernize the entire SC.
4. **Service:** Adapt and evolve the service offer to CERN's community needs.
5. **Integration:** Increase maturity of the SC integration, internally and externally.
6. **Sustainability:** Implement sustainable procurement and eco-responsibility guidelines.
7. **High professional standards:** Apply industry best-practices ensuring a sustainable economic model.

Supply Chain & Logistics: Service & functions overview

Import/export formalities & customs + VAT (~4k expeditions/y). Control of goods received. Packaging.


Shipping

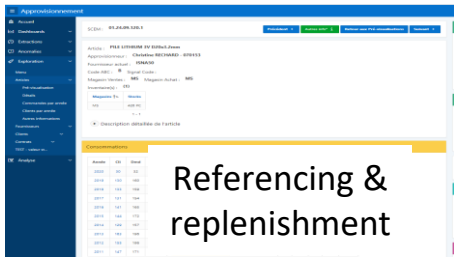

Goods receptions

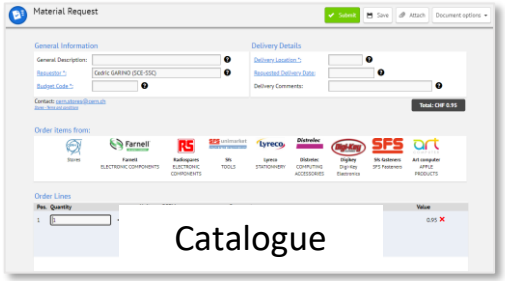
Web catalogue (~12.5k refs, ~65k sales/y), referencing, replenishment, warehousing operations, cuttings, PPEs.

Stores


Central


Raw materials


Referencing & replenishment


Catalogue

Collect & distribution (~110k/y), mail inbound & outbound, removal of offices (~1,5k/y), long-term storage of accelerator equipment (20k m2)


Long-term storage

Internal removals


Mail


Internal distribution

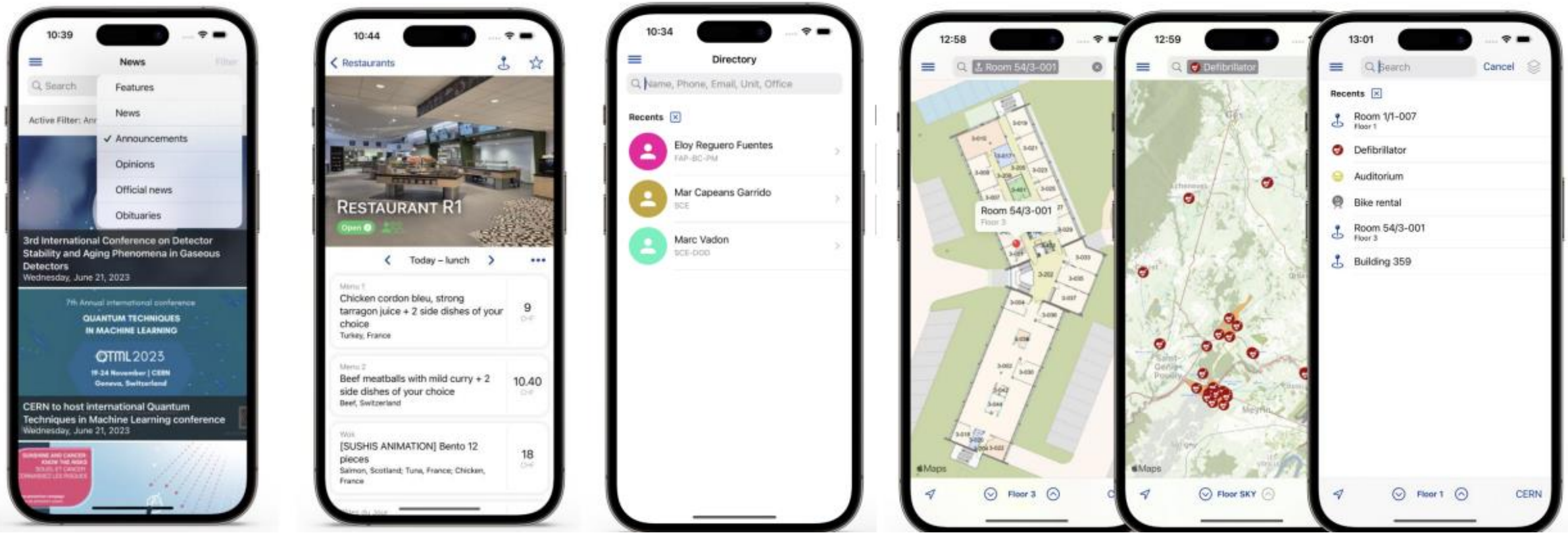
CERN Campus App

News Feeds

Restaurants
Menus & Occupancy

Phonebook
Calls, Email, Location

Maps
Search, Floors, Points of Interest



Thank you! Questions?