

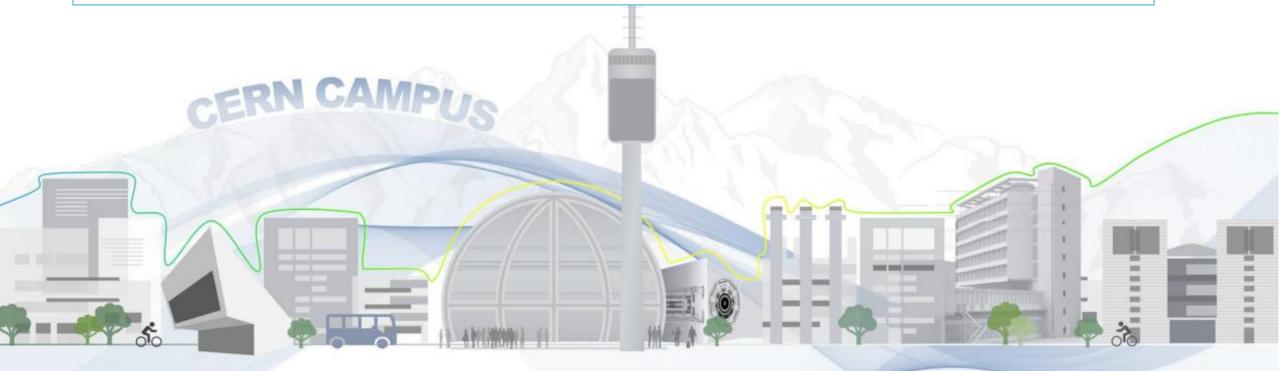
CERN Stores roadmap Vision, Objectives & Strategies

Cédric Garino (SCE-SSC)

16.05.2023

Context: CERN Stores as part of SCE-SSC

The Site and Civil Engineering (SCE) Department manages and develops CERN's real estate assets and infrastructures in agreement with CERN's scientific strategy, as well as all the services related to the caretaking and operation of the CERN site.



The Services & Supply Chain group (SCE-SSC) provides CERN's community with high standard campus experience and optimal industrial supply chain execution by offering a full set of rationalized, efficient, and transparent services.

RN SCE Site and Civil Eng











Supply Chain vision

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



CERN Stores mandate

CERN Stores is responsible to provide material supply for referenced items (i.e. references with recurrent demands and a long-term interest for the Organization). This includes:

- Referencing of items based on the needs of the CERN Community through a referencing process;
- A centralized front line capturing and processing demands of referenced items. It also covers non-referenced material requests in technical areas such as raw materials if the process benefits of existing CERN Stores expertise;
- Stock management and replenishment via order management using a pre-defined contractual framework following CERN's procurement rules;
- Inbound, internal and outbound warehousing operations (reception, quality control, put-away, inventory, picking preparation).

The ultimate goal is to ensure availability, optimal lead time, traceability, quality and best value for CERN's community of items referenced in CERN Stores.

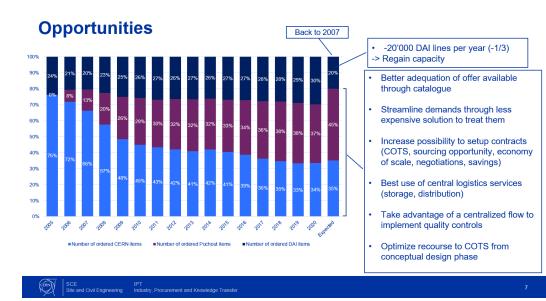
Prior to initiate any purchasing procedure, the end user shall verify whether his/her requirement is covered by CERN stores standard equipment, in which case the purchase shall be handled by the CERN stores.

The purchasing of the said items falls under the responsibility of the Purchasing Service.



Long-term objectives

- Reshape distribution of demand fulfilment routes to the values of 2007 (20% DAI, 80% PunchOut or CERN catalogue)
- Simplify material request and fulfilment experience for all CERN's community
- Reduce inventory value and contain operational costs
- Reduce environmental impact of all SC activities
- Leverage the added value of a central stores service through a higher degree of collaborative integration with key partners (internal and external with suppliers)
- Maintain a healthy, safe and pleasant working environment to sustain high team engagement



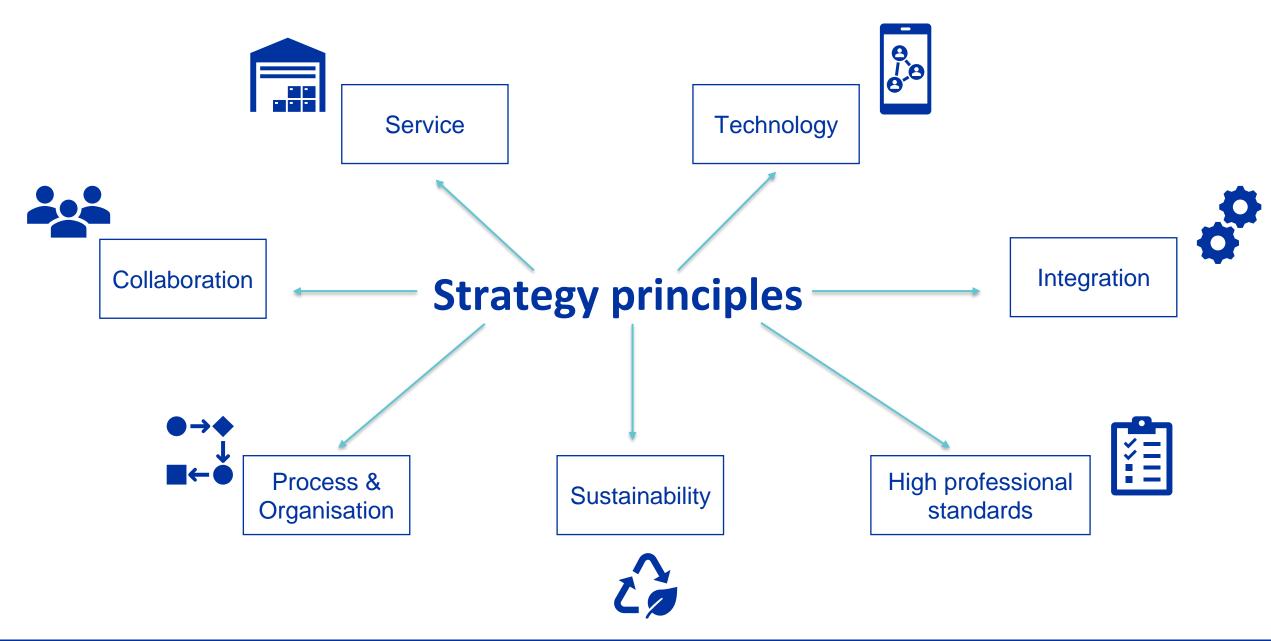
Roadmap Objectives linked to Initiative Packages

Simplify material request and fulfilment experience for all CERN's community.	Y	Commitment based on more supplier contracts	Ensure completeness	Central identification
Reshape distribution of demand fulfilment to	1	Professionalisation	and consistency of item data	and registration of direct-supply-items
what it was in 2007 (20% DAI, 80% PunchOut or CERN catalogue).		Supply Route Decision	Create additional item characteristics	Supplier integration data exchange
Optimize inventory and contain operational costs.		Extend STORE Team to	Establish Planning	Supplier integration
Reduce environmental impact of all supply chain activities.		manage all site supplies & stocks	routine	VMI, consignment stock
Maintain a healthy, safe and pleasant working environment to sustain high team engagement.	$\left \right $	Create One Supply Team for consumables and	Goal Alignment for the One Supply Team	Optimize roles & responsibilities and team interfaces
Leverage the added value of a central stores service through a higher degree of collaborative integration with key partners (internal and external with suppliers).		spares	One suppry learn	teann inter lates



Long Term Objectives	KPI			
# Short	Name	Calculation	Period	Target
1 Reshape distribution of fulfilment routes	Supply via CERN-Stores	Demand-lines via CERN-Stores/ total demand-lines (demand-lines are either request-lines or purchasing-lines)	Year	>= 80%
2 Simplify experience	Request process steps	Number of clicks by request process	Snap-shot year end	tbd
	OTIF (On Time In Full)	Demand-lines delivered "on-time-in-full"/ total demand-lines	Year	Increased by 20% on 2022 baseline
3 Reduce inventory & cost	Inventory value	Inventory value of in-stock items	Snap-shot year end	Reduction of 20% of end 2022 baseline
	Operational unit cost	Operational cost for key supply chain processes/ total of request-line	Year	Maintaining 2022 baseline cost
4 Sustainability	2nd hand material usage	Request-lines fulfilled by second hand materials/ total of request-lines	Year	tbd
	Inventory write-offs	Inventory write-off value	Year	tbd
	CO2 emission	Equivalent CO2 emission for all supply transports	Year	tbd
	Single-usage materials	Value of purchased single-usage materials in Supply Chain Operations	Year	zero
5 Increase collaboration	Collaboration pilots with suppliers	Number of collaboration pilot agreements put in place	Year	tbd
6 Working environment	Accident Lost Time	FTE hours lost due to an accident	Year	zero
	Team engagement	Team engagement survey results	Snap-shot year end	tbd



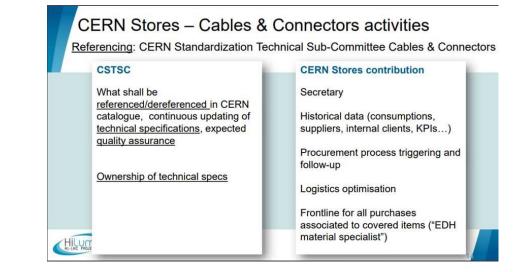




Collaboration

 Foster goal alignment aiming for structured collaboration and create dedicated partnerships with key stakeholders (internal clients, technical experts, CERN Standardisation Committee, Procurement, HSE, logistics, industrial support contracts).

Develop bidirectional communication channels.



CERN Stores	SCE-SSC-SC					Unsubscribe	Þ
						Unsubscribe	P
CERN Stores		rencing	Replenishment	Raw material			
Products St	ores management O	perations	Warehouse	Catalogue			
Stock management	Delivery delay	EDH	Punchout	Contract revision			
Supply chain strategy	Shipping						
	on the CERN Stores cha ou need to know on wh				newsletters to		
otifications Preference	S						
							Q
CERN Stores Flash #3							
Flash news ! Dear CERM		latest informa	ition from the St	ores, Brand			
Flash news ! Dear CERN Yesterday, 16:34 (CEST)	I community, Find out the	latest informa	tion from the St	ores, Brand			
Flash news I Dear CERN Yesterday, 16:34 (CEST) CERN Stores Flash #2 The Schelling machine is	I community, Find out the 2 now fully functional ! Dea						
Flash news I Dear CERN Yesterday, 16:34 (CEST) CERN Stores Flash #/ The Schelling machine is Friday 5 May 2023, 10:35 (Cl	community, Find out the l						
Flash news I Dear CERN Yesterday, 16:34 (CEST) CERN Stores Flash #2	community, Find out the l 2 now fully functional 1 Dea I 1 Dear CERN communi	Ir CERN user	s, The schellin	g machine ha			
Flash news 1 Dear CERN Yesterday, 16.34 (CEST) CERN Stores Flash #/2 The Schelling machine is Friday 5 May 2023, 10.35 (CI CERN Stores Flash #/ Thursday 4 May 2023, 9.46 (community, Find out the i	Ir CERN user	s, The schellin	g machine ha			
Flash news I Dear CERN Yesterday, 16.34 (CEST) CERN Stores Flash #2 The Schelling machine is Friday 5 May 2023, 10.35 (CI CERN Stores Flash #2 Out of Order Machine Ale	community, Find out the l community, Find out the l community functional I Dea community transformed by the local second second community of the local second secon	tr CERN user	s, The schellin te that the schel	g machine ha			
Flash news 1 Dear CERN Yesterday, 16.34 (CEST) CCERN Stores Flash #/2 The Schelling machine is Friday 5 May 2023, 10.35 (CI CCERN Stores Flash #/2 Out of Order Machine Aler Thursday 4 May 2023, 9.46 (CCERN Stores Newsle Dear CERN community, W	community, Find out the l community, Find out the l community functional I Dea community transformed by the local second second community of the local second secon	tr CERN user	s, The schellin te that the schel	g machine ha			
Flash news I Dear CERN Festerday, 16:34 (CEST) CCERN Stores Flash #/2 The Schelling machine is riday 5 May 2023, 10:35 (CI CCERN Stores Flash #/2 Out of Order Machine Aler Thursday 4 May 2023, 9:46 (C CCERN Stores Newsle Dear CERN community, W	community, Find out the l community, Find out the l community functional I Dea community transformed by the local second community of the local second secon	tr CERN user	s, The schellin te that the schel	g machine ha			

Notifications's Archive



Process & Organisation

- Document, streamline and standardize key processes.
- Adapt the organisation supporting the service.
- Converge towards one guided and transparent process to request and obtain material at CERN.

^{9.} Recommendation to Create One Supply Team



One Supply Team

Page 24

- Supply Strategy benefits from its proximity to the STORE
- Catalogue Management (including Data Management) is close to Procurement, but manages workflows closely interacting with Supply Strategist as well
- Merging Procurement for Spares & Consumables with the STORE team to enable joint management of set of team objectives
- Keep Procurement Functional Management with Procurement working in a Matrix set-up

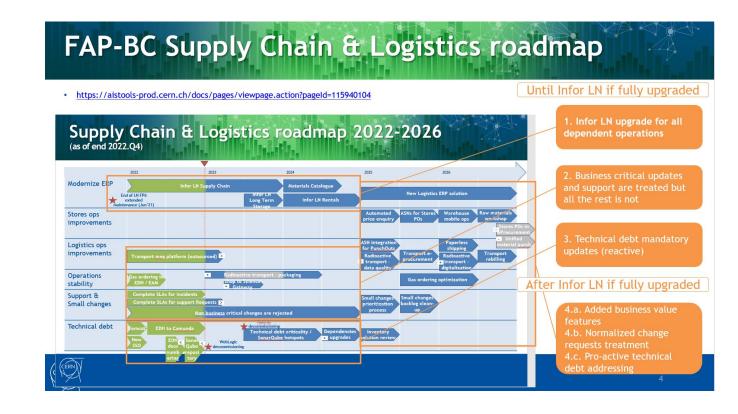
Catalogue - ART Computer	
Catalogue - Bossard	
Catalogue - CERN Stores	
Catalogue - DigiKey	
Catalogue - Distrelec	
Catalogue - Farnell	
Catalogue - Lyreco	
Catalogue - Mouser	
Catalogue - Radiospares	
Catalogue - SFS	
Catalogue - SFS Fasteners	
Contract Reference Request	
DAI Pool Overview	
Demand for Temporary Labour (DTEM	MP)
Departmental Request (DR)	
Electronic Invoice	
Inter Departmental Transfer (TID)	
Material Request (Stores)	
OSVC	
Project Request Form	
Purchase Requisition (DAI)	



SUCH

Technology

- Leverage technology and digitalization to modernize the entire SC. Support business processes evolution.
- Focus will be on enhanced data management, improved user experience, mobile ops, automations, integration, and alignment of software solutions.

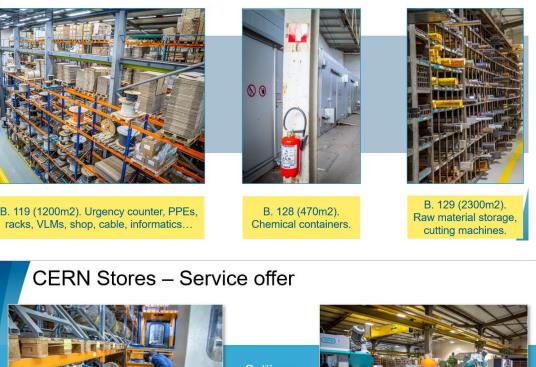




Service

- Adapt and evolve the service offer to CERN's community needs (CERN catalogue offer, new PunchOut catalogs, cutting machines, storage infrastructure, SC frontline).
- Expend service offerings to equipment group: Stock holding, inventory management and warehouse operations.

CERN Stores – Infrastructure and Equipment



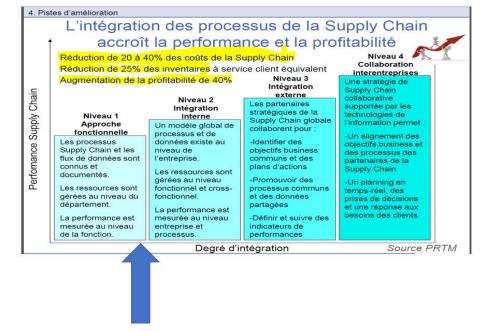




Integration

• Increase maturity of the SC integration, internally and externally.

 Connect with storage management roadmap.

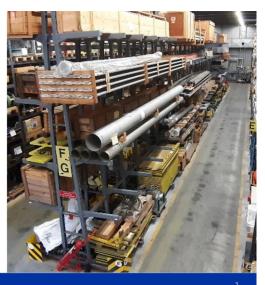


We are here, with some initiatives targeting the level 2

Long-term objectives

- Avoid the construction of new storage buildings in the future. Reduce over time the total surface allocated to storage
- Limit duplication of local storage service resources to target an economy of scale. Reduce associated industrial support costs.
- Feed circular economy and limit environmental impact

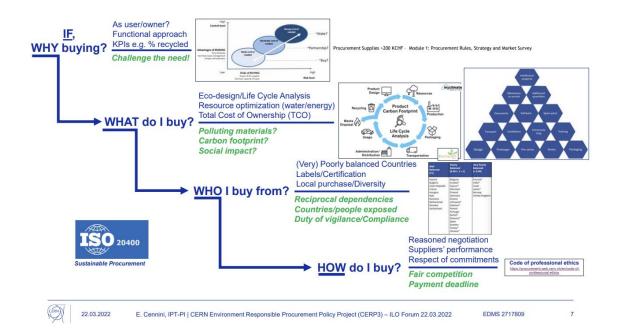






Sustainability

- Implement <u>sustainable procurement</u> and eco responsibility guidelines.
- Introduce a new set of KPIs to track CERN SC sustainability efforts and results (request-lines fulfilled by second-hand materials, inventory write-offs, eq. CO2 due to supply transports, single-usage materials in SC operations).
- Connect CERN stores roadmap with waste management roadmap.



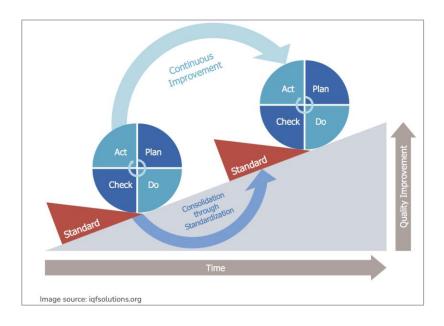
CERN Waste management- Long-term objectives

- Offer to CERN's community an efficient and adapted waste management service.
- 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.



High professional standards

- Apply industry best-practices (ex: LEAN methodology, Inventory Management, Demand Planning, Activity-Based Costing) ensuring a sustainable economic model.
- Enrol CERN stores collaborators in training programs to maintain a high level of expertise.
- Invest in pleasant and ergonomic work environment that promotes comfort, productivity, and well-being.
- Deploy team engagement methodologies and tools.



4. Professionalise Supply Route Decisions



Page 18



Supply Chain Strategy:
"Create transparency and stock-manage only where a STORE-stock adds real value"
Increase visibility (identification) of directly ordered items
Increase number of items in catalogue (Punchout or STORE)
Decrease and limit items in stock

Critical/ strategic or long lead time items (stocks unavoidable)
Plannable items (stocks manageable)

Make decision criteria for Supply Route transparent
Engage expert for Supply Route traffic management



References and Q&A

• EDMS: https://edms.cern.ch/document/2884962/1

Next

• Q2/23:Tasks and schedule (David, Maggie, Ralf)

Thanks for your attention.

Questions ?





home.cern