Supply, Procurement & Logistics Division

Logistics & Storage (Temporary and Long-term)

Jörgen Larsson, Senior Logistics Officer
Group Leader Warehouse & Logistics



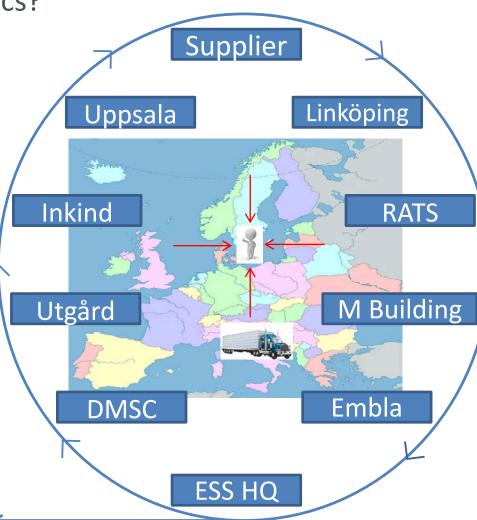
What is the definition of Logistics?

"Logistics is the knowledge and expertise to lead and control the flow of material also connected to resource-, information- and monetary flows. To achieve the highest possible efficiency through high service and low cost, keeping all stakeholders in the supply chain satisfied"
Wikipedia

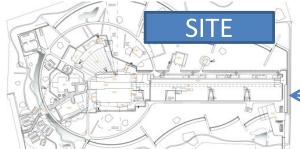
Example of services provided by ESS nominated logistics service provider 4PL Central Station

- Transportation
- Storage
- Unloading/Loading
- Coordination
- Information
- Cost efficiency
- Consultancy





STAKEHOLDERS





Statement

ESS Logistics is as prepared as the feed back and data gathering process has allowed us

– please help us fill the gaps!

- Data gathering process
- Scope of challenge
- Risk mitigation



Shipment data gathering process

ESS Work Package leaders expectations

WP No Pr	Project W	VP Title	ESS contact	Site Area Managers	Scope of work	Stakeholder	contact	INCOTERM / Address	Estimated volume
		Spoke Cryomodules	Christine Darve	Nick Gazis	13 pcs / Spoke Cryomodules		Sebastian Bousson	DAP Orsay to UPPSALA /EXW UPPSALA to LUND	1
		Eliptical Cryomodules	Christine Darve	Nick Gazis	Niobium shipping	ESS/INKIND TBD	Håkan Danared	FCA JP/CN to SE + SE to DE and DE to IT/GB	
S A	Accelerator El	Eliptical Cryomodules	Christine Darve	Nick Gazis	21 pcs/ High Beta cryomodules			FCA SACLAY	
5 A	Accelerator El	Eliptical Cryomodules	Christine Darve	Nick Gazis	9 pcs / Medium Beta cryomodules			FCA SACLAY	
			M.Eshraqi Walter Wittmeler	Nick Gazis	No hardware deliveries according to email from M. Eshraqi on the 29/6-2016 ION Source LEBT	N/A INFN. Catania/inkind	N/A Frank Hellström	N/A Walter återkommer med detta	N/A TRD after contracts signed with industrial narrows
			Walter Wittmeier Walter Wittmeier	Nick Gazis Nick Gazis					TBD after contracts signed with industrial partners TBD after contracts signed with industrial partners
			Walter Wittmeler	Nick Gazis	MEST	ESS Bilbao/INKINO	Georg Hulla	Walter återkommer med detta	TBD after contracts signed with industrial partners
3 A	Accelerator N	Normal conducting front end	Walter Wittmeler	Nick Gazis	Drift Tube Linac	INFN, Lenaro	Frank Hellström	Walter återkommer med detta	TBD after contracts signed with industrial partners
6 A	Accelerator B	Beam delivery systems	I. Alonso	Nick Gazis	Raster Scanning Magnets (RSM) system (Beamline elements, cables and power supplies)	Danfysik, DK	S. Möller	DOP Lund (address TBD)	15m3
6 A	Accelerator B	Beam delivery systems	I. Alonso	Nick Gazis	Gamma blockers	NCBI, PL INKIND	S. Möller	TBO - no agreement in place (Address in Lund TBD)	2m3 / 200kg
			A. Jansson	Nick Gazis Nick Gazis		CERN / "Inkind" SACLAY/INKIND		DAP Lund - address TBD	300 monitors / weight and volume TBD 40 detectors and electronic equipment
		Beam diagnostics Beam diagnostics	A. Jansson A. Jansson	Nick Gazis Nick Gazis	Neutron Beam Loss Monitors "V" Bunch Shape Monitors (BSM)	INR (Institute for Nuclear Research), Russia PROCUREMENT	Alexander Feschenko		40 detectors and electronic equipment 2 monitors / weight and volume TBD
7 A	Accelerator B	Beam diagnostics	A. Jansson	Nick Gazis	Non Invasive Profile Monitors	SACLAY/INKIND		DAP Lund - address TBD	Approx. 20 monitors / 3 batches / weight and volume TBO
7 A	Accelerator B	Beam diagnostics	A. Jansson	Nick Gazis	Equipment to be installed in PBIP (Target WP 4)	Oslo University/INKIND		DAP ESS Bilbao (Madrid?)	weight/volume TBD
7 A	Accelerator B	Beam diagnostics	A. Jansson	Nick Gazis	Target Imaging System	Oslo University/INXIND		TBD - Lund / Address TBD	weight/volume TBD
7 A	Accelerator B	Beam diagnostics	A. Jansson A. Jansson	Nick Gazis Nick Gazis	Compontents to Target WP4 / PBIP - Monitors	Procurement/ INKIND TBD Procurement/ INKIND TBD		TBD - Lund / Address TBD TBO - Lund / Address TBD	weight/volume TBD
		Beam diagnostics Beam diagnostics	A. Jansson A. Jansson	Nick Gazis Nick Gazis	Compontents to Target WP4 / PBIP - Grid Insertable Beam Stopper				weight/volume TBD 0,5x1,0x1,5 m steel wight TBD
7 A	Accelerator B	Beam diagnostics Beam diagnostics	A. Jansson A. Jansson	Nick Gazis				FCA according to mail dated 31/8-2016 from Mirko Meninga	0,5x1,0x1,5 m steel wight TBO
7 A	Accelerator B		A. Jansson	Nick Gazis	Wire Scanner Sensors/Actuators	Ārhus Univeristy / INKIND TBD			16 pcs approx 20 palletts
7 A	Accelerator B	Beam diagnostics	A. Jansson	Nick Gazis	Wire Scanner Readout Systems	Elettra, GR / INKIND		DAP Lund - address TBD	16 boxes on 4-5 palletts
7 A	Accelerator B	Beam diagnostics	A. Jansson	Nick Gazis	Assorted electronics equipment	Procurement		TBO - Lund / Address TBD	1 large order delivered in several batches with focus on Q1 2018 and several smaller orders over times
	Accelerator R	nr aystems	M. Jensen (A. Sunesson)	Edgar Sargsyan		TBD Ilikely two different suppliers)	M. Jensen (A. Sunesson)	INCOTERN TRD - 381 temperaturatorase	40 deliveries of 2x2.5x6 m, 40 deliveries of 1 pallet with additional equipment
	Accelerator R	F Systems	M. Jensen (A. Sunesson)	Edgar Sargsyan	Klystron Ion Pump HV Cable	Procurement :		INCOTERM TBD - 3PL temporary storage, then Site, when req'd.	5 Spools, 200 kg ea., 1x1x0.5 m ea.
8 A	Accelerator R	RF Systems	M. Jensen (A. Sunesson)	Edgar Sangsyan	Kilystron Ion Pump Connectors	Procurement	S.Calie	INCOTERM TBD - 3PL and then Site	0.5x0.5x0.5 m
8 A	Accelerator R	RF Systems	M. Jensen (A. Sunesson)	Edgar Sargsyan	Klystron Transport Truck	Procurement	S. Calic	INCOTERM TBD - Site	1.5x3.5x2.5m, 2500 kg
8 A	Accelerator R	RF Systems	M. Jensen (A. Sunesson)	Edgar Sargsyan	704 Klystrons for TS2	Procurement	C. Marrelli (M. Jensen)	INCOTERM TBD - Site	2 deliveries, 2x2.5x6 m ea. and pallets with aux components
	Accelerator R		M. Jensen (A. Sunesson)	Edgar Sargsyan		Procurement		INCOTERM TBD - Site	2 pallets, 1.2x1.2x0.8 m ea.
	Accelerator R Accelerator R	E Systems	M. Jensen (A. Sunesson) M. Jensen (A. Sunesson)	Edgar Sangsyan	RF Dummy Loads for TS2 Variable Power Dividers for TS2			INCOTERM TBD - Site	4 pallets, 1x1.5x0.8 m ea. 2 deliveries, 3x3.5x0.8 m ea.
	Accelerator R			Edgar Sargsyan Edgar Sargsyan					Z delivenes, 3x3.5x0.8 m ea. Multiple deliveries (ex. 12 of 0.7x0.5x4m, 6 pallets 1.2x1.2x1.5 ea.)
8 A	Accelerator R	RF Systems	M. Jensen (A. Sunesson)	Edgar Sargsyan	Driver amplifiers for TS2	Procurement	B. Lagoguez	INCOTERM TBD - Site	2 of 1.2x0.8x0.8 m
8 A	Accelerator R	RF Systems	M. Jensen (A. Sunesson)	Edgar Sargsyan	Aux. Power Supplies for TS2	Procurement	5. Calic	INCOTERM TBD - Site	6 of 1x1x0.6m, 2 of 0.8x0.8x1 m, 2 pallets of additional equipment
8 A	Accelerator R	RF Systems	M. Jensen (A. Sunesson)	Edgar Sargsyan	RFDS Support Structure for TS2	Procurement	S. Ekström (S. Calic)	INCOTERM TBD - Site	3 of 0.5x0.5x6 m, 3 pallets of aux. components
8 A	Accelerator R	rer Systems	M. Jensen (A. Sunesson)	Edgar Sargsyan	Klystron/Modulator Oil for TS2	Procurement	G. Göransson (S.Calic)	INCOTERM TBD - Site	3x1000 liter (2 of 1x1x1 m)
8 A	Accelerator R Accelerator R	RF Systems	M. Jensen (A. Sunesson) M. Jensen (A. Sunesson)	Edgar Sargsyan Edgar Sargsyan		Procurement Procurement		INCOTERM TBD - Site	Many diff. spools, "6 pallets Many deliveries
	Accelerator R Accelerator R		M. Jensen (A. Sunesson) M. Jensen (A. Sunesson)	Edgar Sangsyan Edgar Sangsyan	LPS for TS2 klystrons	Procurement Procurement	R. Montano	INCOTERM TBD - Site	Many deliveries TBD
	Accelerator R			Edgar Sargsyan				INCOTERM TBD - Site	TBD
						IVC Partner			26 deliveries,
				The second second	Sanka BE Dawar Station Calibrarias	Elettra Sincrotrone Trieste	S. Calic M. Jensen		Each delivery contains: 11 Two crates 2v2v3 m
				The second second	Spoke Kit Power Station Deliveries	Italy" Alessandro Fabris	M. Jensen A. Sunesson		1) Two crates 2x2x3 m 2) One crate 3x2x3 m
9.4	Accelerator R	¥F Systems	M. Jensen (A. Sunesson)	Edgar Sargsyan		Cristina Pasotti"			One crate 3x2x3 m Two pallets with additional equipment
									120 deliveries - plus spare units,
					100 4	<u></u>	L		Each contains:
				The second second	LPS for HB, MB	IKC Partner Atomki Hungary - Jozsef Molnar	R. Montano		Fast Interlock Module - MicroTCA.4 FPGA Board Mid-Size + FMCs Slow Interlock Module 10U rack approx.
	Accelerator R	¥ Systems	M. Jensen (A. Sunesson)	Edgar Sargsyan	y i	t i	t).	DAP Lund - SITE	Slow Interlock Module 10U rack approx. Conditioning board 1U"2U rack
8/4	A TOTAL PROPERTY AND INC.	The state of the s	and the surresson)	- Series	 	+			6 deliveries - plus spare units
				The second second	LPS for RFQ, DTL	IKC Partner ESS Bilbao - Pedro J. Gonzalez	R. Montano		Each contains:
		The second secon	The state of the s	1					1) Fast Interlock Module - MicroTCA.4 FPGA Board Mid-Size + FMCs
	Accelerator R		M. Jensen (A. Sunesson)	Edgar Sargsyan				DAP Lund - SITE	
	Accelerator R		2.5	Edox C	BEDS Streetung common to the c	Brown mark			2) Slow Interiock Module - 10U rack approx.
		RF Systems	M. Jensen (A. Sunesson)	Edgar Sargsyan			R.Yogi(tbd)	INCOTERM TBD - Site	25 delivaries of 2.5m x 2m x 1m, delivery after every two weeks
6 -	Accelerator R Accelerator R	RF Systems	M. Jensen (A. Sunesson)	Edgar Sargsyan Edgar Sargsyan	RFDS- loads	Procurement	R.Yogi(tbd) R.Yogi(tbd)	INCOTERM TBD - Site INCOTERM TBD - Site INCOTERM TBD - Site	25 delivaries of 2.5m x 2m x 1m, delivery after every two weeks 126 delivaries of 1.7m x 1.3 m x 1 m, Batch of 8 will be delivered after every two week 126 delivaries of 1.7m x 2 m x 1 m, Batch of 8 will be delivered after every two week
8 A	Accelerator R Accelerator R Accelerator R	RF Systems RF Systems RF Systems	M. Jensen (A. Sunesson) M. Jensen (A. Sunesson) M. Jensen (A. Sunesson) M. Jensen (A. Sunesson)	Edgar Sargsyan Edgar Sargsyan Edgar Sargsyan	RFDS- loads	Procurement Procurement	R.Yogi(tbd) R.Yogi(tbd) R.Yogi(tbd)	INCOTERM TBD - Site INCOTERM TBD - Site INCOTERM TBD - Site	25 delivaries of 2.5m x 2m x 1m, delivery after every two weeks 126 delivaries of 1.7m x 1.3 m x 1 m, Batch of 8 will be delivered after every two week 126 delivaries of 1.7m x 2 m x 1 m, Batch of 8 will be delivered after every two week
8 A	Accelerator R Accelerator R Accelerator R Accelerator R	RF Systems RF Systems RF Systems RF Systems	M. Jensen (A. Sunesson)	Edgar Sangsyan Edgar Sangsyan Edgar Sangsyan Edgar Sangsyan Edgar Sangsyan	RFDS- circulators RFDS- loads RFDS- stub waveguides RFDS- stub waveguides	Procurement Procurement Procurement Procurement	R.Yogi(tbd) R.Yogi(tbd) R.Yogi(tbd) R.Yogi(tbd) R.Yogi(tbd) R.Yogi(tbd)	INCOTEMN TBD - Site	25 delivaries of 2.5m x 2m x 1m, delivery affer every two weeks 126 delivaries of 1.7m x 1.3 m x 1.m, betch of 8 will be delivered after every two week 126 delivaries of 1.7m x 2 m x 1m, Betch of 8 will be delivered after every two week 25 delivaries of 6 m x 6 m x 2m, delivery after every two weeks 35 delivaries of 6 m x 6 m x 2m, delivery after every two weeks
8 A 8 A 8 A	Accelerator R Accelerator R Accelerator R Accelerator R Accelerator R	RF Systems RF Systems RF Systems RF Systems RF Systems	M. Jensen (A. Sunesson)	Edgar Sangsyan	805-Croidates 805-Subas 805-Subas 805-Subas 805-Subas 805-Subas waveguides 805-Subas waveguides	Procurement Procurement Procurement Procurement Procurement	R.Yogi(tbd) R.Yogi(tbd) R.Yogi(tbd) R.Yogi(tbd) R.Yogi(tbd) R.Yogi(tbd) R.Yogi(tbd)	INCOTERM TBO - Site	25 delivaries of 2.5 m s.2 m.s. 1m., delivery after every two weeks 126 delivaries of 1.7 m.s. 1.2 m.s. 1 m., delivery after every two weeks 126 delivaries of 1.7 m.s. 2 m.s. 1. m., basto of 8 will be delivered after every two week 126 delivaries of 1.7 m.s. 2 m.s. 1. m., basto of 8 will be delivered after every two weeks 25 delivaries of 6 m.s. m.s. 2.m., delivery after every two weeks 25 delivaries of 6 m.s. 2 m., delivery after every two weeks 25 delivaries of 6 m.s. 2 m. 2.m. delivery after every two weeks
8 A 8 A 8 A	Accelerator R Accelerator R Accelerator R Accelerator R Accelerator R Accelerator R	RF Systems RF Systems RF Systems RF Systems RF Systems RF Systems	M. Jensen (A. Sunesson)	Edgar Sangsyan	#FDS-Circulations #FDS-table Waveguides #FDS-table waveguides #FDS-table waveguides #FDS-table waveguides #FDS-table waveguides #FDS-table waveguides	Procurement Procurement Procurement Procurement Procurement Procurement Procurement Procurement	R.Yogi(tbd) R.Yogi(tbd) R.Yogi(tbd) R.Yogi(tbd) R.Yogi(tbd) R.Yogi(tbd) R.Yogi(tbd) R.Yogi(tbd) R.Yogi(tbd)	INCOTTEM TBD - Site INCOTEM TBD - Site	25 delivaries of 2.5 m s. 2 m. s. in., delivery after every two weeks 126 delivaries of 1.7 m. s. 1 m. s. in., delivery after every two weeks 126 delivaries of 1.7 m. s. 1 m. s. in., delivery after every two week 126 delivaries of 1.7 m. s. 2 m. s. 1 m. basto of 8 will be delivered after every two week 25 delivaries of 6 m. s. 2 m. delivery after every two weeks 26 delivaries of 8 m. s. 2 m. delivery after every two weeks 26 delivaries of 8 m. s. 2 m. delivery after every two weeks 26 delivaries of 8 m. s. 2 m. s. 2 m. delivery after every two weeks
8 A 8 A 8 A 8 A	Accelerator R Accelerator R Accelerator R Accelerator R Accelerator R Accelerator R Accelerator R Accelerator R	RF Systems	M. Jensen (A. Sunesson)	Edgar Sangiyan	#005- (credaters 605- loads	Procurement Procurement Procurement Procurement Procurement Procurement Procurement Procurement Procurement	R.Yogi(tbd)	INCOTTAINT TO - Site	25 delivaries of 2.5 m s.2 m.s. 1 m., delivery after every two weeks 126 delivaries of 1.7 m.s. 1 m. s. 1 m. 5 m. 5
8 A 8 A 8 A 8 A 8 A	Accelerator R Accelerator R Accelerator R Accelerator R Accelerator R Accelerator R Accelerator R Accelerator R Accelerator R	RF Systems	M. Jensen (A. Sunesson)	Edgar Sargsyan	#FDS - (crivations #FDS - for	Procurement	R. Yogi(tbd)	MCOTTAM TBD - Site	25 delivaries of 2.5 m s.2 m.s. 1 m.s. delivery after every two weeks 126 delivaries of 1.7 m.s. 1 m.s. 1 m. general for 4 will be delivered after every two week 136 delivaries of 1.7 m.s. 2 m.s. 1 m. start of 8 will be delivered after every two week 25 delivaries of 1.7 m.s. 2 m.s. 1 m. delivery 1 m.s. 1
8 A 8 A 8 A 8 A 8 A 8 A	Accelerator R Accelerator R Accelerator R Accelerator R Accelerator R Accelerator R Accelerator R Accelerator R	RF Systems	M. Jensen (A. Sunesson)	Edgar Sangsyan	# FDS - Circulation # FDS	Procurement	R.Yog(tbd)	OKCOTEM TIDO - SEE INCOTEM TIDO - SEE	25 delivaries of 2.5 m s.2 m.s. 1 m.s. delivery after every two weeks 126 delivaries of 1.7 m.s. 1 m.s. 1 m.s. park of a will be delivered after every two week 126 delivaries of 1.7 m.s. 2 m.s. 1 m.s. park of a will be delivered after every two week 126 delivaries of 1.7 m.s. 2 m.s. 1 m.s. baston of 8 will be delivered after every two weeks 25 delivaries of 6 m.s. 6 m.s. 2 m., delivery after every two weeks 25 delivaries of 5 m.s. 5 m.s. 1 m.s. delivary after every two weeks 25 delivaries of 3 m.s. 2 m.s. 1 m.s. delivary where every two weeks 25 delivaries of 3 m.s. 2 m.s. 1 m.s. 1 m.s. delivary after every two weeks 25 delivaries of 6 m.s. 1 m.s. 1 m.s. 1 m.s. delivary after every two weeks 25 delivaries of 6 m.s. 6 m.s. 1 m.s. 1 m.s. delivaries of 4 m.s. 1 m.s. 1 m.s. delivaries of 4 m.s. 2 m.s. 1 m.s. 1 m.s. delivaries of 6 m.s. delivaries of 6 m.s. 6 m.s. 3 m.s. delivaries of 6 m.s. 6 m.s. 1 m.s. 1 m.s. delivaries of 6 m.s. 2 m.s. 1 m.s. delivaries of 6 m.s. delivaries of 6 m.s. 2 m.s. 1 m.s. delivaries of 6 m.s. 2 m.s. 1 m.s. delivaries of 6 m.s. 2 m.s. 2 m.s. 1 m.s. delivaries of 6 m.s. 2 m.s. 2 m.s. 3 m.s. delivaries of 6 m.s. 2 m.s. 2 m.s. 3 m.s. delivaries of 6 m.s. 2 m.s. 2 m.s. 3 m.s. delivaries of 6 m.s. 2 m.s. 2 m.s. 3 m.s. delivaries of 6 m.s. 2 m.s. 2 m.s. 3 m
8 A 8 A 8 A 8 A 8 A 8 A 8 A 8 A 8 A	Accelerator R	RF Systems	M. Jensen (A. Sunesson)	Edgar Sangsyan	#FDS - Circulaters #FDS- Loads	Procurement Indicate to the procurement In	K Yeg(tbd)	INCOTEM TID - Ste INCOTEM TID -	25 delivers of 2.5 m s.2 m s.1 m, delivery after every two weeks 126 delivers of 1.7 m s.1 m s.1 m, delivery after every two weeks 126 delivers of 1.7 m s.2 m s.1 m, sector of 8 will be delivered after every two week 126 delivers of 1.7 m s.2 m s.1 m, batch of 8 will be delivered after every two weeks 126 delivers of 5 m s.1 m.2 m, delivery after every two weeks 25 delivers of 5 m s.2 m s.2 m, delivery after every two weeks 25 delivers of 5 m s.2 m s.2 m, 2 m, delivery after every two weeks 25 delivers of 5 m s.2 m s.2 m, delivery after every two weeks 25 delivers of 5 m s.2 m s.2 m, delivery after every two weeks 25 delivers of 5 m s.2 m s.2 m, delivery after every two weeks 25 delivers of 5 m s.2 m s.2 m, s.2 m, delivery after every two weeks 25 delivers of 7 m s.2 m s.1 m, s.1 m, elivers of after every two weeks 26 delivers of 7 m s.2 m s.1 m, s.6 m, delivery after every two weeks
8 A 8 A 8 A 8 A 8 A 8 A 8 A 8 A 8 A 8 A	Accelerator R	RF Systems	M. Jensen (A. Sunesson)	Edgar Sangsyan	#FDS crowlaters #FDS books #FDS b	Procurement Indication of the Indication of Indication Indication of Indication Indicatio	R. Yogi(tbd)	OKCOTEAN TIOD - Site WOOTERM TIOD - Site	23 defluvins of 2.5 m s.2 m.s. 1 m, delivery after every two weeks 126 delivaries of 1.7 m.s.1 m.s. 1 m, beach of a will be delivered after every two week 126 delivaries of 1.7 m.s.2 m.s. 1 m, beach of a will be delivered after every two week 126 delivaries of 1.7 m.s.2 m.s. 1 m, beach of 8 will be delivered after every two weeks 23 delivaries of 6 m.s. 2 m, delivery after every two weeks 25 delivaries of 5 m.s. 2 m.s. 2 m, delivery after every two weeks 50 delivaries of 2 m.s. 2 m
8 A 8 A 8 A 8 A 8 A 8 A 8 A 8 A 8 A 8 A	Accelerator R	RF Systems	M. Jensen (A. Sunesson)	Edger Sergeyen	#FDS - Circulations #FDS- Loads #FDS- Load	Procurement Trocurement	R.Yog(tbd)	DECOTEMENT TIDD - SHE INCOTTEMENT TIDD - SHE	25 delivaries of 2.5 m s. 2 m. s. 1 m., delivery after every two weeks 126 delivaries of 1.7 m. s. 1 m. s. 1 m., delivery after every two weeks 126 delivaries of 1.7 m. s. 2 m. s. 1 m., desired of a will be delivered after every two weeks 126 delivaries of 1.7 m. s. 2 m. s. 1 m., desired of 8 will be delivered after every two weeks 25 delivaries of 5 m. s. 2 m., delivery after every two weeks 25 delivaries of 3 m. s. 2 m. s. 2 m., delivery after every two weeks 25 delivaries of 3 m. s. 2 m. s. 2 m., delivery after every two weeks 25 delivaries of 3 m. s. 2 m. s. 2 m., delivery after every two weeks 25 delivaries of 3 m. s. 2 m. s. 2 m., delivery after every two weeks 25 delivaries of 4 m. s. 2 m. s. 2 m., delivery after every two weeks 25 delivaries of 6 m. s. 2 m. s. 1 m. of 1 m. delivery after every two weeks 25 delivaries of 6 m. s. 2 m. s. 1 m. s. delivaries of 4 m. every two weeks 25 delivaries of 6 m. s. 2 m. s. 1 m. of 1 m. s. 3 m. delivaries of 6 m. s. 4 m. s. 4 m. delivery of 6 m. s. 6
8 A 8 A 8 A 8 A 8 A 8 A 8 A 8 A 8 A 8 A	Accelerator R	Ri Systems 85 Systems 85 Systems 85 Systems 85 Systems 85 Systems 85 Systems 86 Systems 87 Systems 87 Systems	M. Jensen (A. Sunesson)	Edger Sergeyen	#FDS - Circulations #FDS - Loads #FDS - Load	Procurement Indicate the procurement In	R.Yogitbd)	OKCOTEAM TIDD - SEE INCOTEAM TIDD - SEE	23 defluving of 2.5 m s.2 m.s. 1 m.s. delivery after every two weeks 126 delivaries of 1.7 m.s. 2 m.s. 1 m.s. pathon of 8 will be delivered after every two week 126 delivaries of 1.7 m.s. 2 m.s. 1 m.s. pathon of 8 will be delivered after every two week 126 delivaries of 1.7 m.s. 2 m.s. 1 m.s. pathon of 8 will be delivered after every two weeks 126 delivaries of 6 m.s. 6 m.s. 2 m., delivery after every two weeks 126 delivaries of 7 m.s. 2 m.s. 1 m. delivery after every two weeks 126 delivaries of 7 m.s. 2 m.s. 1 m. delivery after every two weeks 126 delivaries of 7 m.s. 2 m.s. 1 m.s. delivery after every two weeks 127 delivaries of 7 m.s. 2 m.s. 2 m.s. delivary after every two weeks 127 delivaries of 7 m.s. 2 m.s. 1 m.s. delivery after every two weeks 127 delivaries of 7 m.s. 2 m.s. 1 m.s. delivery after every two weeks 128 delivaries of 7 m.s. 2 m.s. 1 m.s. delivery after every two weeks 129 delivaries of 7 m.s. 2 m.s. 1 m.s. delivery after every two weeks 129 delivaries of 7 m.s. 2 m.s. 1 m.s. delivery after every two weeks 129 delivaries of 7 m.s. 2 m.s. 1 m.s. delivery after every two weeks 129 delivaries of 7 m.s. 2 m.s. 1 m.s. delivery after every two weeks 129 delivaries of 7 m.s. 2 m.s. 1 m.s. delivery after every two weeks 129 delivaries of 7 m.s. 2 m.s. 1 m.s. delivery after every two weeks 129 delivaries of 7 m.s. 2 m.s. 1 m.s. delivery after every two weeks 129 delivaries of 7 m.s. 2 m.s. 1 m.s. delivery after every two weeks 129 delivaries of 7 m.s. 2 m.s. 1 m.s. delivery after every two weeks 129 delivaries of 7 m.s. 2 m.s. 1 m.s. delivery after every two weeks 129 delivaries of 7 m.s. 2 m.s. 1 m.s. delivery after every two weeks 129 delivaries of 7 m.s. 2 m.s. 1 m.s. delivaries of 7 m.s. 2 m.s.
8 A 8 A 8 A 8 A 8 A 8 A 8 A 8 A 8 A 8 A	Accelerator R	86 Systems 86 Systems 185 Syst	M. Jensen (A. Sunesson)	Edger Sergeyen	#FDS - Circulations #FDS- Loads #FDS- Load	Procurement Trocurement Trocur	R.Yogithd) Morten Johannson (TBC) Anders Johannson (TBC) Anders Johannson (TBC) Anders Johannson (TBC) Anders Johannson (TBC)	OCCOTAMN TIDO - SHE INCOTEMN	25 deliveries of 2.5 m s.2 m s.1 m, delivery after every two weeks 126 deliveries of 1.7 m s.1 m m.1 m, delivery after every two weeks 126 deliveries of 1.7 m s.2 m s.1 m, delivery after every two weeks 126 deliveries of 1.7 m s.2 m s.1 m, delivery of 8 will be delivered after every two weeks 126 deliveries of 5 m s.2 m, delivery after every two weeks 25 deliveries of 5 m s.2 m, delivery after every two weeks 25 deliveries of 5 m s.2 m s.2 m, delivery after every two weeks 25 deliveries of 5 m s.2 m s.2 m, delivery after every two weeks 25 deliveries of 5 m s.2 m s.2 m, delivery after every two weeks 26 deliveries of 5 m s.2 m s.2 m, delivery after every two weeks 26 deliveries of 5 m s.2 m s.2 m, delivery after every two weeks 26 deliveries of 5 m s.2 m s.2 m, delivery after every two weeks 26 deliveries of 5 m s.2 m s.2 m, s.2 m, delivery after every two weeks 26 deliveries of 5 m s.2 m s.2 m, s.2 m, delivery after every two weeks 26 deliveries of 5 m s.2 m s.2 m s.1 m, delivery after every two weeks 27 deliveries of 5 m s.2 m s.2 m s.1 m, delivery after every two weeks 28 deliveries of 5 m s.2 m s.
8 A 8 A 8 A 8 A 8 A 8 A 8 A 8 A 8 A 8 A	Accelerator R	86 Systems 66 Systems 76 Systems	M. Innere (A. Suresson) M. Jensen (A. Suresson)	Edger Sergeyen	#FDS - Circulations #FDS - Loads #FDS - Load	Procurement Indicate the Procurement Indicate the Indi	R.Yogithell R.Yogi	OKCOTEM TIDO - SEE INCOTEM TIDO - SEE	23 defluving of 2.5 m s.2 m.s. 1 m.s. (delivery after every two weeks 126 delivaries of 1.7 m.s.1 m.s. 1 m.s. (and the of a will be delivered after every two week 126 delivaries of 1.7 m.s.2 m.s. 1 m.s. (and 1.6 m.s.) 25 delivaries of 1.7 m.s.2 m.s. 1 m.s. (and 1.6 m.s.) 25 delivaries of 5 m.s. 6 m.s. 2 m., delivery after every two weeks 25 delivaries of 5 m.s. 5 m.s. 1 m.s. (and 1.6 m.s.) 25 delivaries of 5 m.s. 5 m.s. 1 m.s. (and 1.6 m.s.) 25 delivaries of 5 m.s. 5 m.s. 1 m.s. (and 1.6 m.s.) 25 delivaries of 2 m.s. 5 m.s. 1 m.s. (and 1.6 m.s.) 25 delivaries of 2 m.s. 2 m.s. 2 m.s. (and 1.6 m.s.) 25 delivaries of 2 m.s. 2 m.s. 2 m.s. (and 1.6 m.s.) 25 delivaries of 2 m.s. 2 m.s. 1 m.s. (allowery after every two weeks 25 delivaries of 3 m.s. 2 m.s. 1 m.s. (allowery after every two weeks 25 delivaries of 3 m.s. 2 m.s. 1 m.s. (allowery after every two weeks 26 delivaries of 4 m.s. 2 m.s. 1 m.s. (allowery after every two weeks 26 delivaries of 4 m.s. 2 m.s. 1 m.s. (allowery after every two weeks 26 delivaries of 4 m.s. 2 m.s. 1 m.s. (allowery after every two weeks 26 delivaries of 2 m.s. 2 m.s. 1 m.s. (allowery after every two weeks 26 delivaries of 4 m.s. 2 m.s. 1 m.s. (allowery after every two weeks 26 delivaries of 4 m.s. 2 m.s. 1 m.s. (allowery after every two weeks 27 delivaries of 4 m.s. 2 m.s. 1 m.s. (allowery after every two weeks 28 delivaries of 2 m.s. 2 m.s. 2 m.s. (allowery after every two weeks 28 delivaries of 2 m.s. 2 m.s. 2 m.s. (allowery after every two weeks) 28 delivaries of 2 m.s. 2 m.s. 2 m.s. (allowery after every two weeks) 29 delivaries of 2 m.s. 2 m.s. 2 m.s. (allowery after every two weeks) 29 delivaries of 2 m.s. 2 m.s. 2 m.s. (allowery after every two weeks) 20 delivaries of 2 m.s. 2 m.s. 2 m.s. 2 m.s. 2 m.s. 2 m.s. (allowery after every two weeks) 20 delivaries of 2 m.s. 2
8 A 8 A 8 A 8 A 8 A 8 A 8 A 8 A 8 A 8 A	Accelerator R	86 Systems 86 Systems 87 Systems 88 Systems 89 Systems 80 Systems	M. Moreo IA. Survessori M. Jensen IA. Survessori	t dger sagsyan (dger sagsyan (### OFF CONTRACT ### OF	Procurement India State	R.Vog(tbd)	DECOTEMENT TIDO - SHE INCOTTEMENT TIDO - SHE	23 deliveries of 2.5 m s. 2 m s. 1 m, delivery after every two weeks 136 deliveries of 1.7 m s. 2 m s. 1 m, delivery after every two weeks 136 deliveries of 1.7 m s. 2 m s. 1 m, basto of 8 will be delivered after every two week 136 deliveries of 1.7 m s. 2 m s. 1 m, basto of 8 will be delivered after every two weeks 23 deliveries of 6 m s. 1 2.7 m, delivery after every two weeks 24 deliveries of 7 m s. 2 m s. 2 m, delivery after every two weeks 25 deliveries of 3 m s. 2 m s. 2 m, delivery after every two weeks 25 deliveries of 2 m s. 2 m s. 2 m, delivery after every two weeks 25 deliveries of 3 m s. 2 m s. 2 m, delivery after every two weeks 25 deliveries of 3 m s. 2 m s. 2 m, delivery after every two weeks 26 deliveries of 25 m s. 2 m s. 1 m, 1 m, delivery after every two weeks 26 deliveries of 25 m s. 5 m s. 2 m s. 2 m, delivery after every two weeks 30 deliveries of 25 m s. 5 m s. 2 m
8 A A B A A B A A B A A B A A B A A B	Accelerator R	86 Systems 86 Systems 97 Systems 98 Systems	M. mone (A. Suresson) M. fineer (A. Suresson) M. mone (A. Suresson) M. mone (A. Suresson) M. fineer (A. Suresson)	Edger Magyann Giger Sengwen	### OFFICE OFFIC	Procurement Information Procurement Information Inform	R.Yog(tbd)	OKCOTEM TIDO - SEE MICOTEM TIDO - SEE	23 defluving of 2.5 m s.2 m s.1 m, defluving after every two weeks 126 defluving of 1.7 m s.1 m s.1 m, sethod of s will be defluved after every two week 126 defluving of 1.7 m s.2 m s.1 m, sethod of s will be defluved after every two weeks 126 defluving of 6 m s m s.2 m, defluving after every two weeks 23 defluving of 6 m s m s.2 m, defluving after every two weeks 23 defluving of 6 m s.2 m, defluving after every two weeks 24 defluving of 2 m s.2 m s.2 m, defluving after every two weeks 25 defluving of 2 m s.2 m s.2 m, defluving after every two weeks 25 defluving of 2 m s.2 m s.2 m, defluving after every two weeks 25 defluving of 2 m s.2 m s.2 m s.2 m, defluving after every two weeks 25 defluving of 6 m s.6 m s.3 m, defluving after every two weeks 26 defluving of 6 m s.6 m s.3 m, defluving after every two weeks 26 defluving of 6 m s.6 m s.3 m, defluving after every two weeks 26 defluving of 6 m s.6 m s.3 m, defluving after every two weeks 26 defluving of 6 m s.6 m s.3 m, defluving after every two weeks 26 defluving s.2 m s.6 m s.0 m s.2 m s.2 m s.0 m
8 A A S A A A S A A S A A S A A S A A A S A A S A A A S A A A S A A A S A A A S A A A A S A A A A A S A	Accelerator R	86 Systems 86 Systems 87 Systems 88 Systems 88 Systems 89 Systems 80 Systems	M. Immore IA. Survessori M. Jensen IA. Survessori	t dger kappyan (dger kappyan) (dger kappyan (dger kappyan)	#FDS - Circulations #FDS - Tools #FDS - Tool	Procurement Information Procurement Information Inform	R.Yog(tbd)	OKCOTEM TIDO - SEE MICOTEM TIDO - SEE	25 delivaries of 2.5 m s. 2 m s. 1 m, delivery after every two weeks 126 delivaries of 1.7 m s. 2 m s. 1 m, delivery after every two weeks 126 delivaries of 1.7 m s. 2 m s. 1 m, delivery after every two weeks 126 delivaries of 1.7 m s. 2 m s. 1 m, delivery after every two weeks 26 delivaries of 5 m s. 2 m, delivery after every two weeks 25 delivaries of 5 m s. 2 m, delivery after every two weeks 26 delivaries of 5 m s. 2 m, delivery after every two weeks 25 delivaries of 5 m s. 2 m, 2 m, 2 m, delivery after every two weeks 25 delivaries of 5 m s. 2 m, 2 m, delivery after every two weeks 25 delivaries of 6 m s. 2 m s. 2 m, delivery after every two weeks 25 delivaries of 6 m s. 2 m s. 2 m, delivery after every two weeks 25 delivaries of 6 m s. 2 m s. 2 m, delivery after every two weeks 25 delivaries of 6 m s. 2 m s. 2 m, delivery after every two weeks 25 delivaries of 6 m s. 2 m s. 1 m, delivaries after every two weeks 26 delivaries of 6 m s. 2 m s. 1 m, delivaries after every two weeks 26 delivaries of 6 m s. 2 m s. 1 m, delivaries after every two weeks 26 delivaries of 6 m s. 2 m s. 1 m, delivaries after every two weeks 27 delivaries of 6 m s. 2 m s. 1 m, delivaries after every two weeks 28 units 19 inch wide, 40 cm high crates. 28 units 19 inch wide, 40 cm high crates. 28 units 19 inch wide, 40 cm high crates. 28 units 19 inch wide, 40 cm high crates. 29 delivers of 20.2 5 sc m, 60 delivers of 1 pallet with additional equipment 40 delivers of 20.5 5 sc m, 60 delivers of 1 pallet with additional equipment 40 delivers of 20.5 5 sc m, 60 delivers of 1 pallet with additional equipment
8 A A A A A A A A A A A A A A A A A A A	Accelerator R	86 Systems 86 Systems 16 Systems 16 Systems 16 Systems 17 Systems 18 Systems	M. moren (A. Survesson)	Edger Magyayan Gagar Angyayan Gagar Angyayan Gagar Magyayan	### OFFICE OFFIC	Procurement Indicate the state of the sta	R.Togittide II. R.Togittide II. R.Togittide III. R.Togitt	MINOTERM TIDS - SEE MINOTERM	23 delivers of 2.5 m s. 2 m s. 1 m, delivery after cerey two weeks 136 delivers of 1.5 m s. 1 m s. 1 m, delivery after cerey two weeks 136 delivers of 1.7 m s. 2 m s. 1 m, batch of 8 will be delivered after every two week 136 delivers of 1.7 m s. 2 m s. 1 m, batch of 8 will be delivered after every two weeks 136 delivers of 2 m s. 2 m, delivery after every two weeks 23 delivers of 3 m s. 2 m, extra year, delivery after every two weeks 25 delivers of 3 m s. 2 m, 2 m, 2 m, delivery after every two weeks 25 delivers of 3 m s. 2 m, 2 m, delivery after every two weeks 25 delivers of 3 m s. 2 m, 2 m, delivery after every two weeks 25 delivers of 3 m s. 2 m, 2 m, delivery after every two weeks 25 delivers of 2 m s. 2 m s. 1 m, 1 m, delivers after every two weeks 26 delivers of 2 m s. 2 m s. 1 m, 1 m, delivers of after every two weeks 26 delivers of 2 m s. 2 m s. 2 m, delivers of a m s. 2 m s. 2 m, delivers of 2 m s. 3 m s. 4 m, delivers of 3 m s. 4
8 A A B A A B A A B A A B A A B A A B A A B A A B A A B A B A A B	Accelerator R	86 Systems 86 Systems 97 Systems 98 Systems	M. Morean (A. Survesson) M. Ansen (A. Suvesson)	t dger kegywin (dger kegywin (### OFFICE CONTRIBUTION OF THE CONTRIBUTION OF	Procurement I Troument Procurement I Troument	A Trogitties A Trog	MACOTEM TID - Site	23 deliveries of 2.5 m s. 2 m s. 1 m, delivery after every two weeks 126 deliveries of 1.7 m s. 2 m s. 1 m, delivery after every two weeks 126 deliveries of 1.7 m s. 2 m s. 1 m, desired of a will be delivered after every two week 126 deliveries of 1.7 m s. 2 m s. 1 m, desired of a will be delivered after every two weeks 126 deliveries of 6 m s. 1 2.7 m, delivery after every two weeks 23 deliveries of 3 m s. 2 m s. 2 m, delivery after every two weeks 24 deliveries of 3 m s. 2 m s. 2 m, delivery after every two weeks 25 deliveries of 2 m s. 2 m s. 2 m, delivery after every two weeks 25 deliveries of 3 m s. 2 m s. 2 m, delivery after every two weeks 25 deliveries of 4 m s. 2 m s. 2 m, delivery after every two weeks 25 deliveries of 4 m s. 2 m s. 1 m s. 1 m, delivery after every two weeks 25 deliveries of 6 m s. 6 m s. 3 m, delivery after every two weeks 26 deliveries of 25 deliveries of 4 m s. 6 m s. 3 m, delivery after every two weeks 26 deliveries of 25 deliveries of 5 m s. 2 m let put addrived after every two weeks 40 deliveries of 25 deliveries of 5 m s. 2 m let put addrived every letter every deliveries of 1 m s. 2 m
8 A A A A A A A A A A A A A A A A A A A	Accelerator R	86 Systems 86 Systems 185 Syst	M. Morean (A. Survesson) M. Ansen (A. Suvesson)	Edger Magyayan Gagar Angyayan Gagar Angyayan Gagar Magyayan	### OFFICE CONTRIBUTION OF THE CONTRIBUTION OF	Procurement I Troument Procurement I Troument	R.Togittide II. R.Togittide II. R.Togittide III. R.Togitt	OKCOTEM TIDO - SEE INCOTEM TIDO - SEE	23 delivers of 2 3 m a 2 m s 1 m, delivery after every two weeks 136 delivers of 2 1 m s 1 m s 1 m, batch of all will be delivered after every two week 136 delivers of 1 7 m s 2 m s 1 m, batch of all will be delivered after every two week 136 delivers of 2 m s 2 m s 2 m, and a m s 1 m, batch of a will be delivered after every two weeks 136 delivers of 3 m s 2 m, a 2 m, and a m s 2 m, and a



Shipment data gathering process

Inkind partners challenges

								DAP		Help to design				
								Orsay to		Transport cages (3) +				
							Sebasti	UPPSALA		Transport/insurance +	ULISSE			
					13 pcs /		an	/EXW		secure	(CNRSs		2018-01	
		Spoke	Christine		Spoke	IPNOrsay/	Bousso	UPPSALA		unloading/loading in	Logistics	2017-08	/ RATS,	2018-10 /
4 Ассе	elerator	Cryomodules	Darve	Nick Gazis	Cryomodules	INKIND	n	to LUND		Uppsala	provider)	/ Uppsala	Lund	Tunnel
										Coordinate DAP				
										shipment to SITE over				
										time - need to get in				
									20 Units	contact with supplier				
									/ 2 per	to get more details		2017 Q4		
1				Ila		IPNOrsay/		DAP Site	truck /	related to estimated	4PL /	until		
1 Ассе	elerator	Cryogenics	P. Arnold	Sjöholm	Spoke Linac	INKIND		or TBD?	10 trucks	volume and contents	Skanska	2018 Q2		

Meetings with in kind partners

Performed

- ESS Bilbao
- Science & Technology Facilities Council (STFC) Rutherford Appleton Laboratory
- Institut de Physique Nucléaire (IPNO)
- Commissariat à l'énergie atomique et aux énergies alernatives (CEA)
- Istituto Nazionale di Fisica Nucleare (INFN) in Milan, Catania & Legnaro
- Elettra

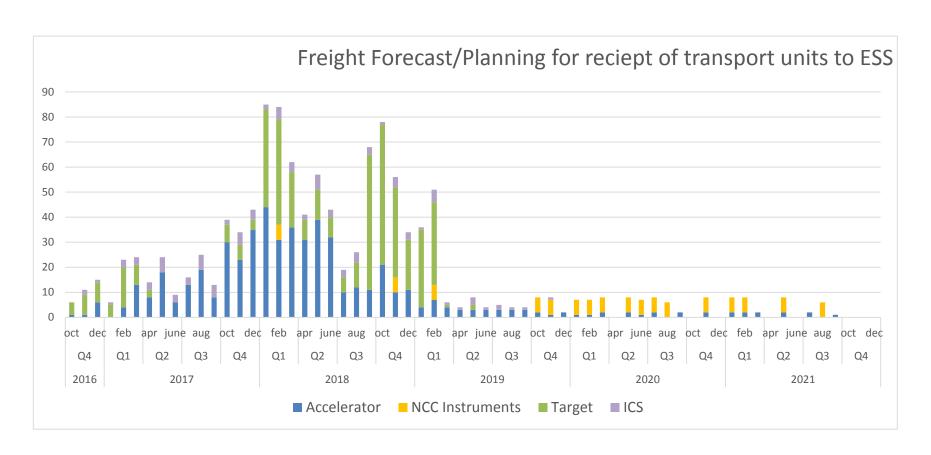
TBD

- Warsaw University of Technology
- Wrocław University of Science and Technology
- Nuclear Physics Institute of the Czech Academy of Science (UJF CAS)
- NUVIA

- Data gathering process
- Scope of challenge
- Risk mitigation



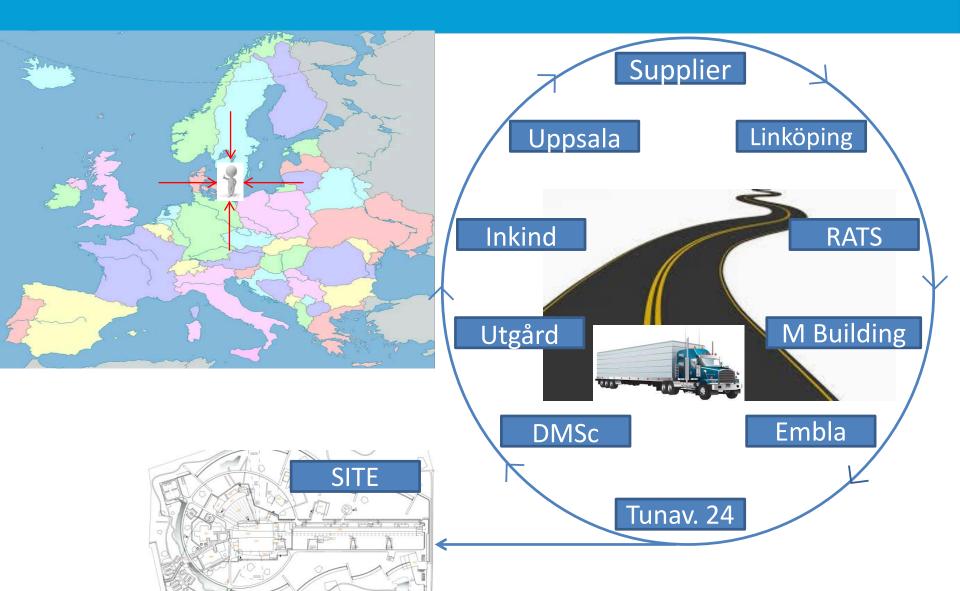
View of the holistic challenge



- Data gathering process
- Scope of challenge
- Risk mitigation

Logistics being the "gate keeper"





Routines for delivery to ESS Construction SITE

Purpose:

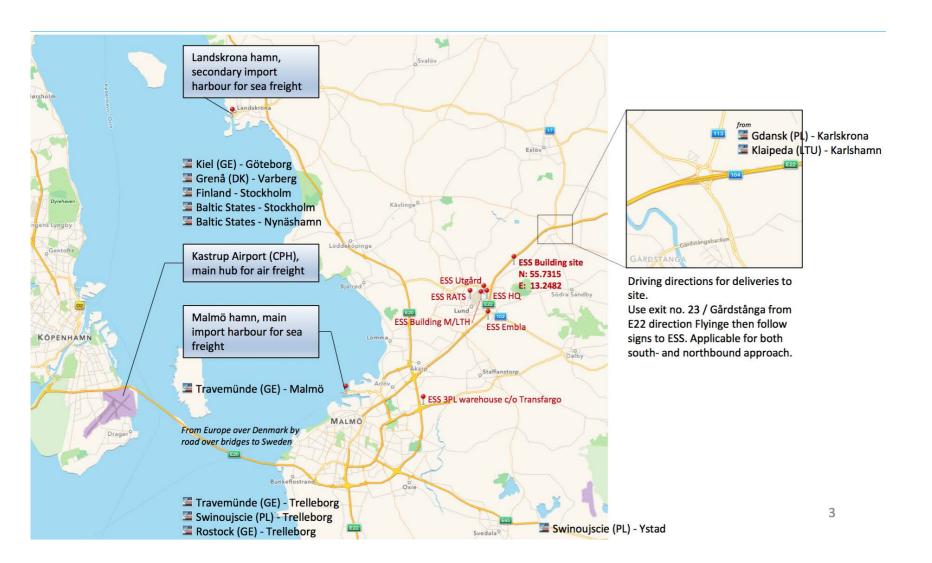
- To provide a structured handling of deliveries to ESS Constructions SITE
- To be able to enhance the level of service towards the requesters

Who to contact?

Elin Boldt
Junior Logistics Officer
+46 (0)73-0881744
Elin.boldt@esss.se
logistics@esss.se

Routines:

- Delivery related to Purchase Order is stated on order confirmation to contact logistics@esss.se 48h prior delivery. In other cases it is stated in Technical Annex to contact logistics@esss.se 48h prior delivery
- Logistic officer contact the shipper for information such as number of packages, size, weight, delivery date and time
- Logistic officer contact the consignee for information such as contact person, unloading zone and eventual support with unloading at SITE
- If additional support with unloading is needed, Logistic officer coordinates and book the unloading
- Logistic officer book the SLOT time



Short & Long term storage in place and up and running

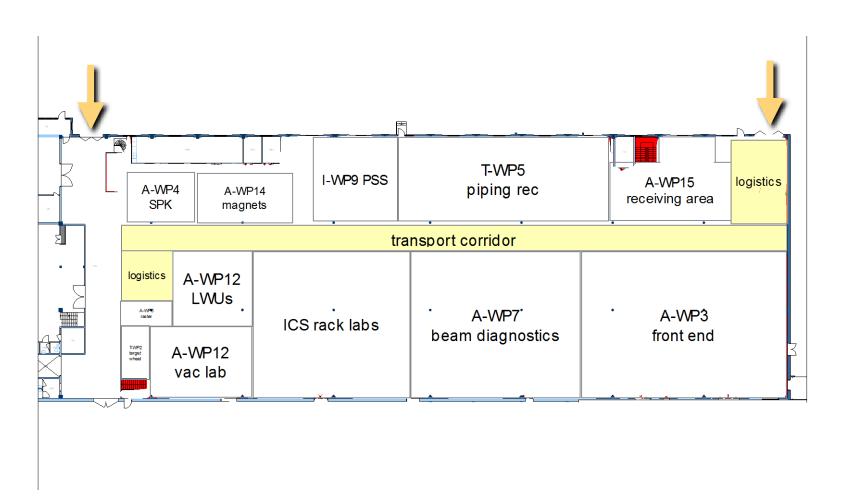




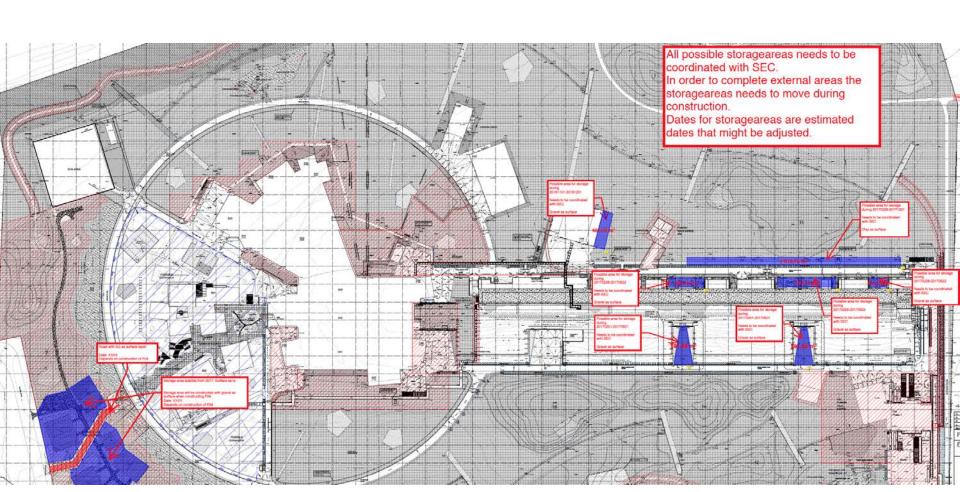




RATS in place 20/2-2017 (Receive, Accept, Test & Store)



Lay down areas on SITE





Statement

ESS Logistics is as prepared as the feed back and data gathering process has allowed us

– please help us fill the gaps!

And finally, we are flexible and agile!



Thank you!

Jörgen Larsson, Senior Logistics Officer
Supply, Procurement and Logistics Division
jorgen.larsson@esss.se +46 (0) 72 179 2098

