

Vice President, Supply Chain & Production Control Toyota Motor Europe



2-4 May 2022 | INFINITY Munich



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### **TOYOTA - IN EUROPE**



## **€10B+** invested since

**1990** 

spent with **400** European-based suppliers per year

€6B+



Direct employees



**1963** Began selling cars in Europe **1.1 million** Vehicles sold in CY21 6.4% MARKET SHARE Dec 21'



#### 3M+

Toyota & Lexus Electrified vehicles sold

#### **58%**

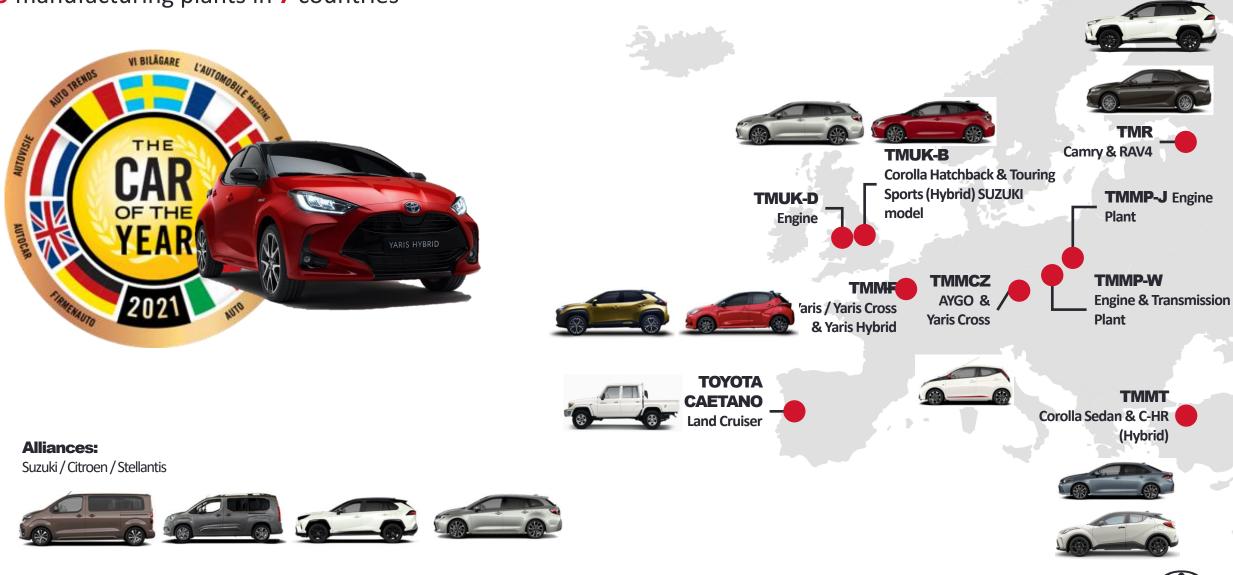
Electrified mix in CY21 sales





### **TOYOTA - IN EUROPE**

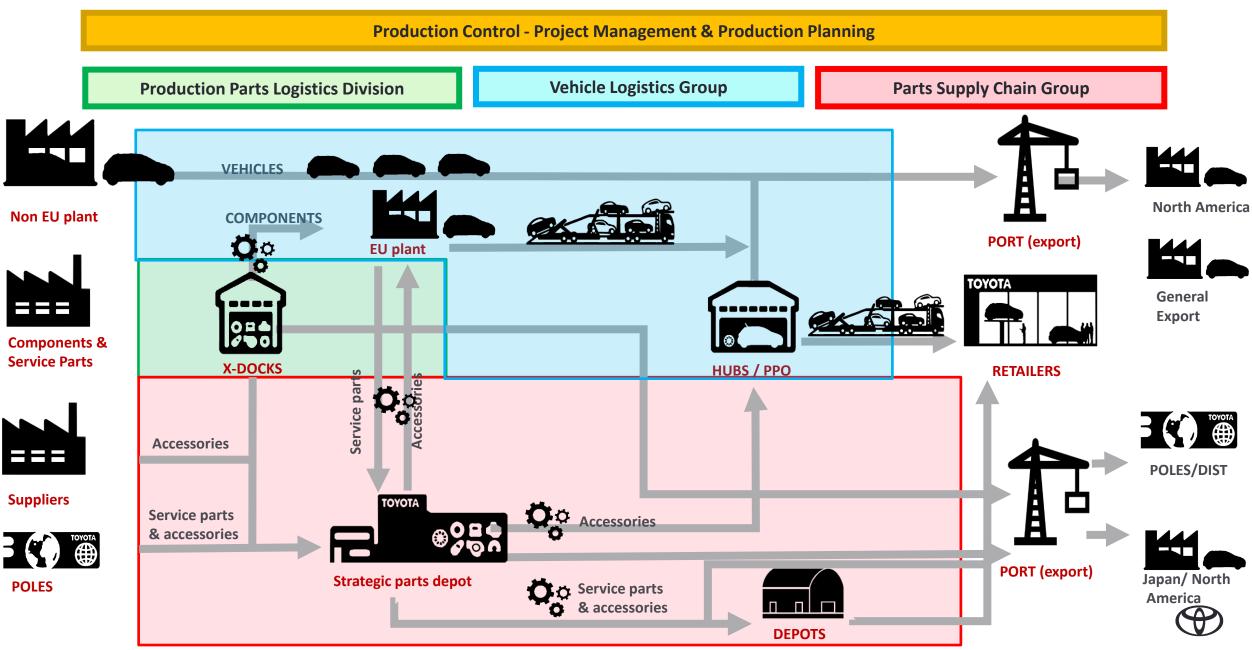
9 manufacturing plants in 7 countries



8 out of 10 Toyota vehicles sold in Europe are made in Europe

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## TME SUPPLY CHAIN & PRODUCTION CONTROL - SCOPE



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### SUPPLY CHAIN EUROPEAN - LOGISTICS COMPANIES

Production Parts Logistics Division (PPLD)
Cross-docks
Consolidation points
Vehicle Logistics Group (VLG)
TME Hubs
Cross-docks
Port operations
NMSC Hubs
Parts Supply Chain Group
(PSCG)
TPCE
TME RDO
Affiliate depots
NMSC depots

NMSC: National Marketing & Sales Companies





### TME SUPPLY CHAIN - NUMBERS

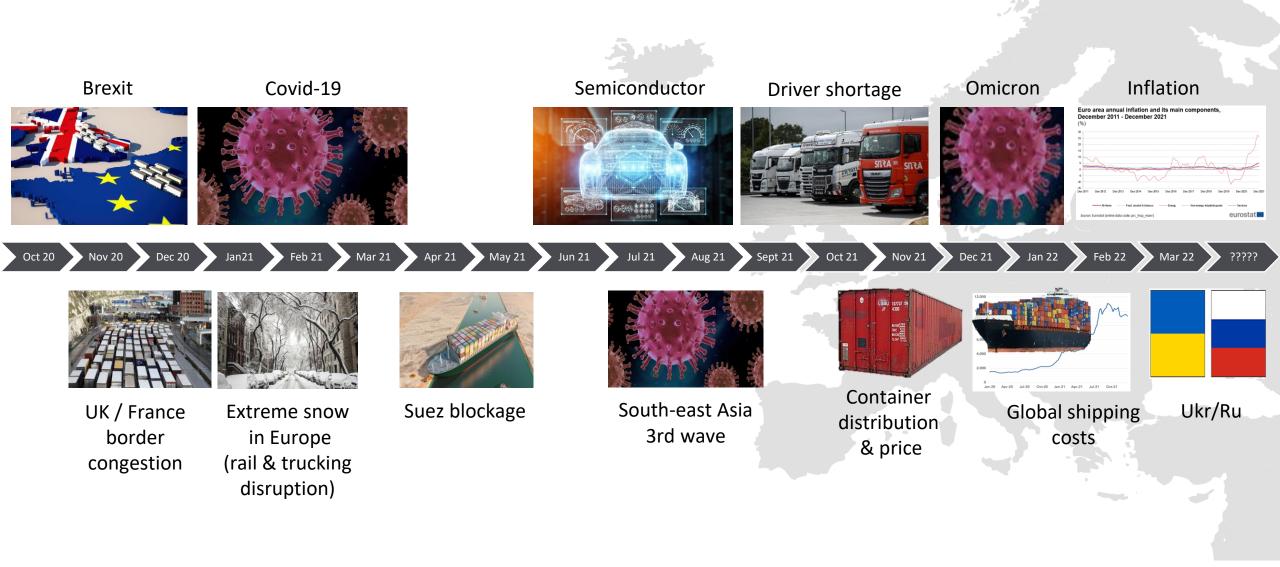


	PEOP	LE (~4200 mer	PRODUCTION (K units)							
	Office	Warehouse	LP/ Support	Dedicated Driver		Vehicle	Engine	Transmission		
TOTALS	~390	~1500	~1200	~1500	TOTALS	798	702	475		
		T /~142 million	NE		E SALES (CY	2021)				
	NOVENIEN	T (~142 millior	i km per year)					2021)		
	Trucks KM	Rail KM	Sea KM	Air KM			Europe	Global		
TOTALS	~110M	~5M	~20m	~12m	TOTALS		1.1 Million	10.5 Million		

#### **STOCK** (~ 200k m3 / average ~ 32 days)



### **SUPPLY CHAIN - CHALLENGES**





### **TOYOTA EUROPE - HUMANITARIAN SUPPORT PROGRAM**

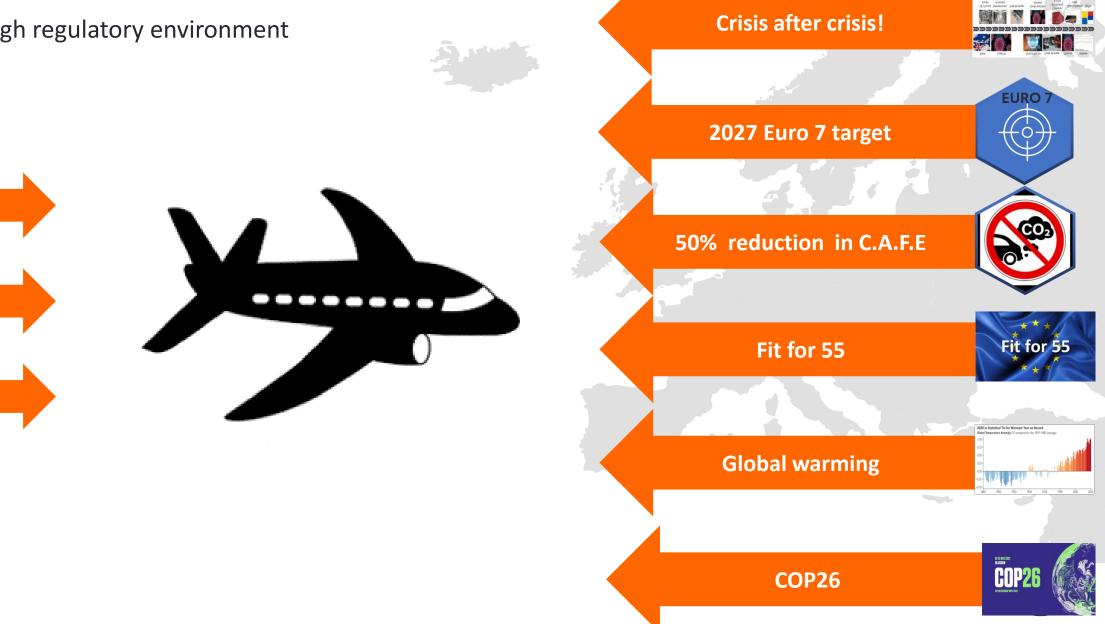
UKRAINE	RUSSIA	CONSEQUENCES
Suspended all logistics	Suspended all logistics	Suspended all logistics to ECC countries



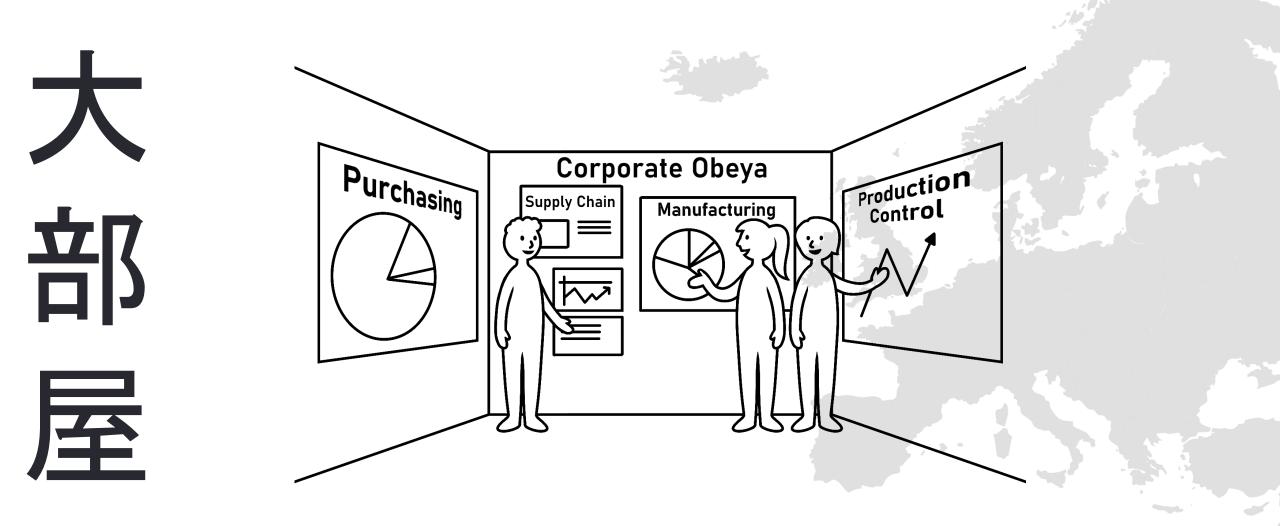


### **HOW DOES TOYOTA WEATHER THESE STORMS?**





### **TOYOTA – OBEYA MANAGEMENT**



Working together with a "one-team" fighting spirit

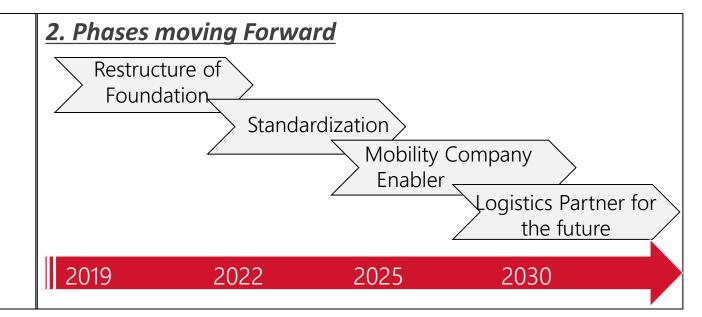


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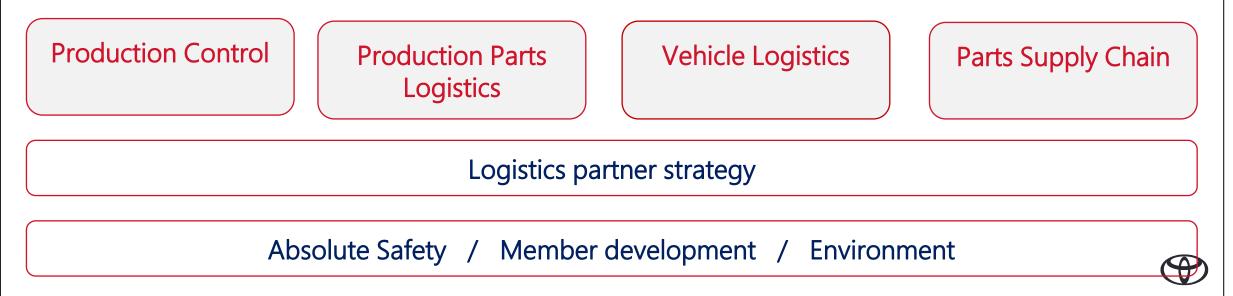
### SUPPLY CHAIN – 2025 STRATEGY

#### **1** Mission

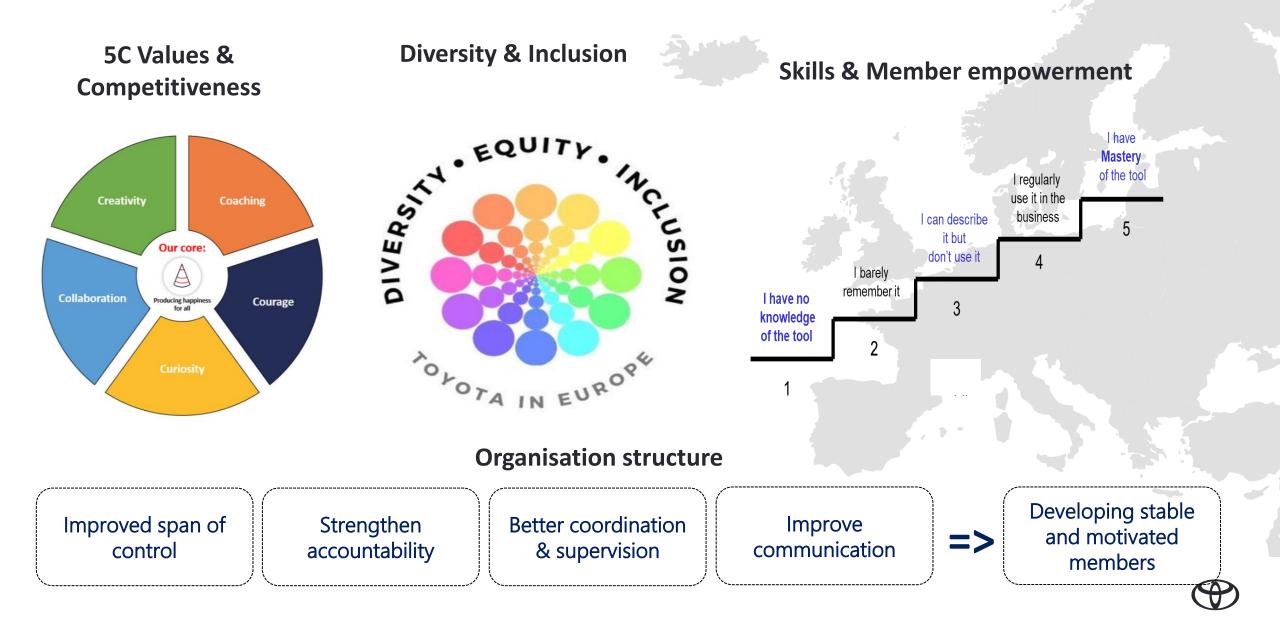
Create Happiness for all by delivering the right product at the right time through lean integrated logistics exceeding Customer & Stakeholder expectation with engaged members realising a sustainable future



#### **3.Restructure of Foundation**



## SUPPLY CHAIN – AGILE & RESILIENT MEMBERS

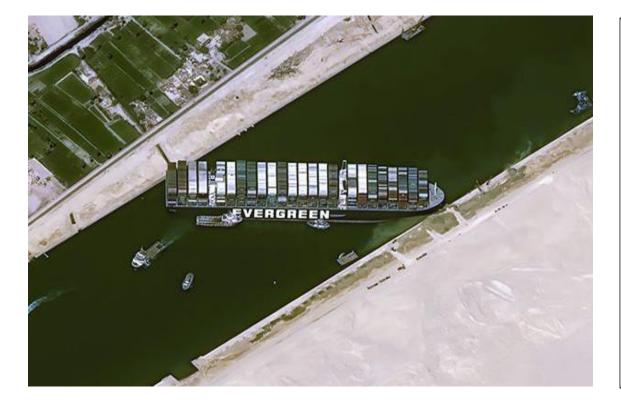


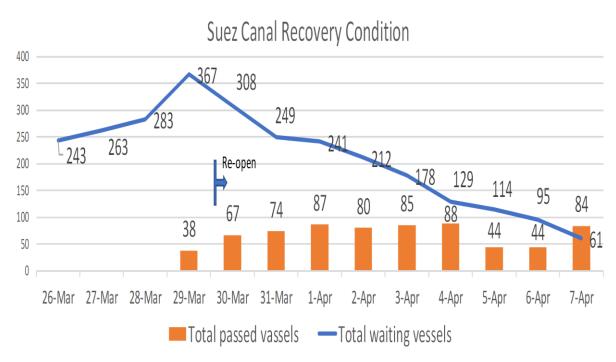
#### TPUBLIC 公開 TPS – TOYOTA PRODUCTION SYSTEM

- 0	est Cost - Shortest Lead Time - Best Sa rtening the production flow by elimin	v O
Just-In-Time The right parts in the right place at the right time at the right time ( Continuous flow ( Pull system ( Quick changeover ( Integrated logistics	People & Teamwork   • Selection • Ringi decision making   • Common Goals • Cross-trained   • Continuously Solve Problems!   • Genchi Genbutsu • Eyes for Waste   • S Why's • Problem Solving	Jidoka Automation with a human touch • Automatic stops • Andon • Man-machine separation • Error proofing • Built-in quality control • Solve root cause of problems (5 Why?)
	Leveled Production (heijunka)	
Stable and S	tandardized Processes (Standardize and	nd improve!)
Visual	Management (Out of standard at a gi	lance!)
	Toyota Way Philosophy	



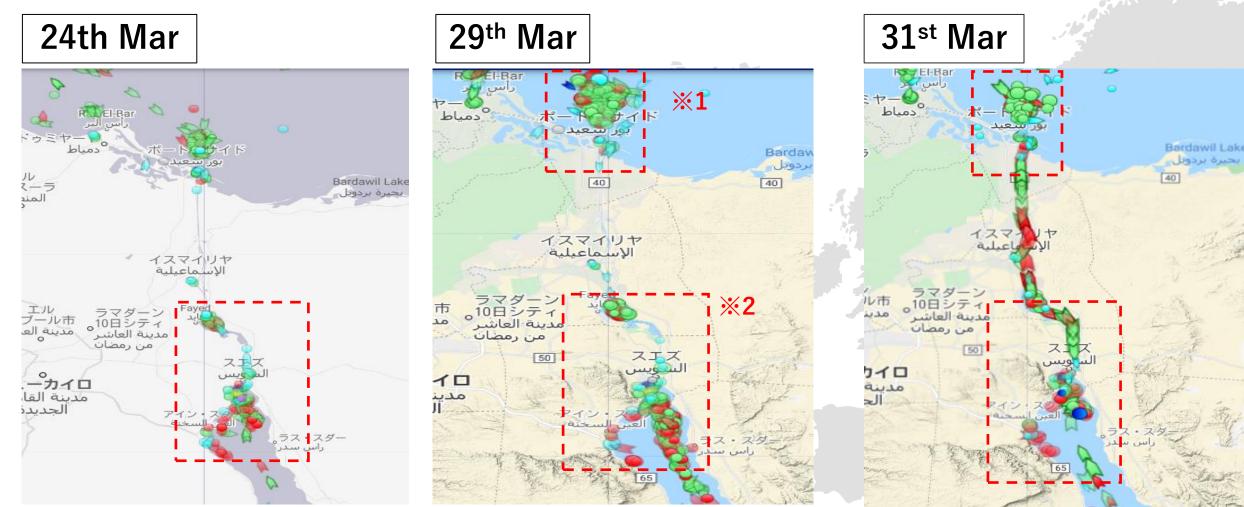
23/3/22': 7:40hrs - Blocked by mega container ship Ever Green 29/3/22': Midnight – canal reopened







## TPS EXAMPLE – SUEZ CANAL BLOCKAGE MARCH 21' - TRACKING



South 68 Vessels North 73 Vessels **O passed** 

South 195 vessels North 172 vessels Total 367 vessels stagnating

South 31 vessels

North 36 vessels

84 passed

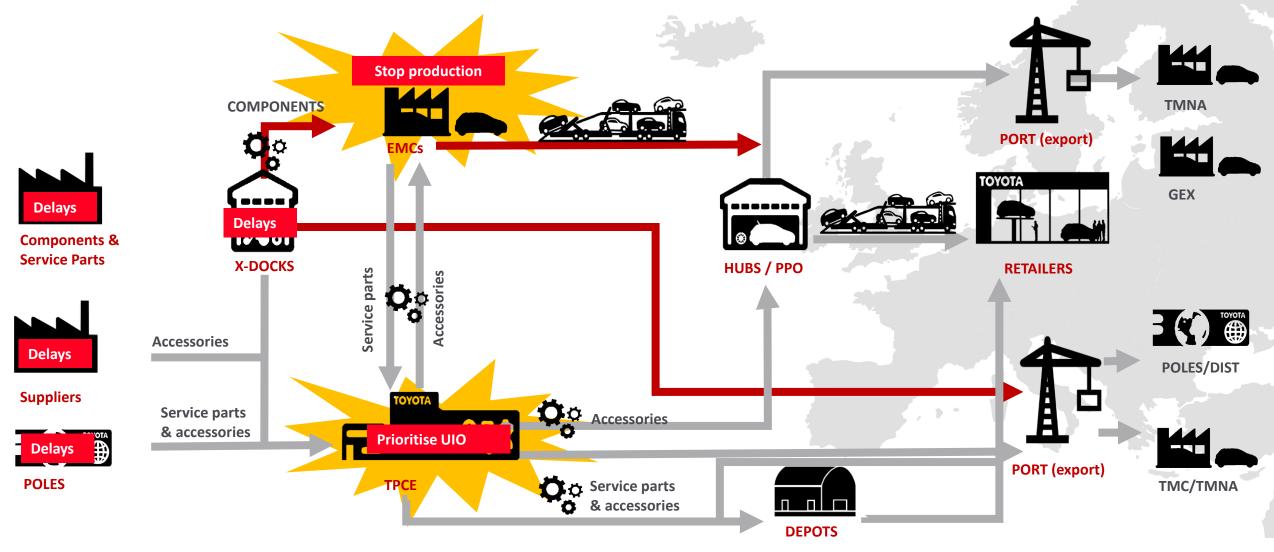
249 vessels stagnating

Just-in-time stock levels





**Clean stop / clean start at manufacturing plants** 



**Toyota TPS approach – stay loyal to our foundations** 



Standardised work & Kaizen mindset x temporary halt production in a clean way

Clear & guaranteed ETA times to our customers & quick start-up

Toyota Foundations

- 1. Safety First
- 2. Quality
- 3. Volume
- 4. Profit

## TPS EXAMPLE – SEMI CONDUCTOR SHORTAGE

Toyota minimised the impact of parts shortage



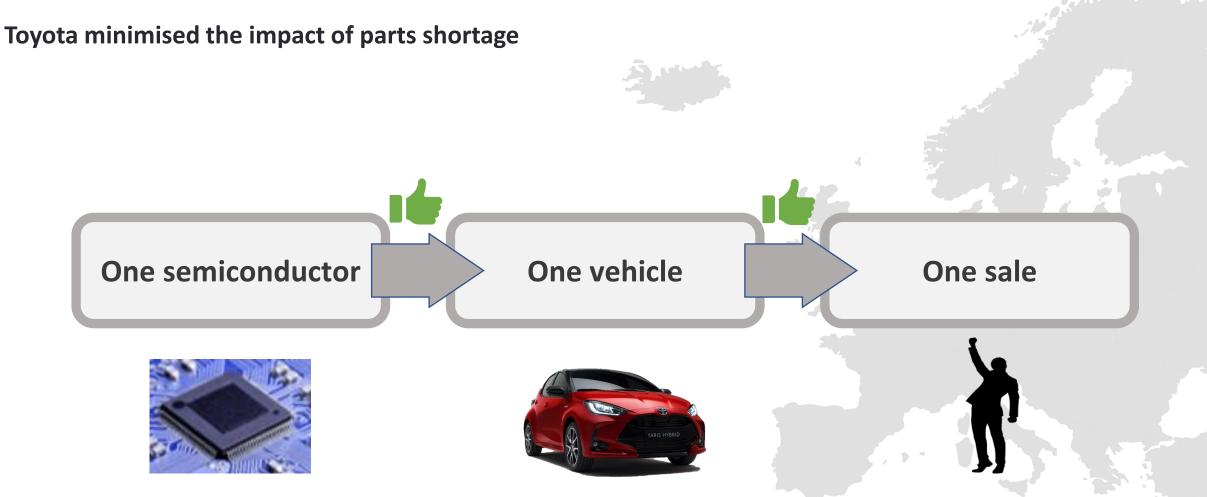
#### **Problem:**

- Covid-19 factory shutdowns
- High global demand for technology (Home-working / home schooling/ 5G / gaming etc.)
- Double supplier lead time





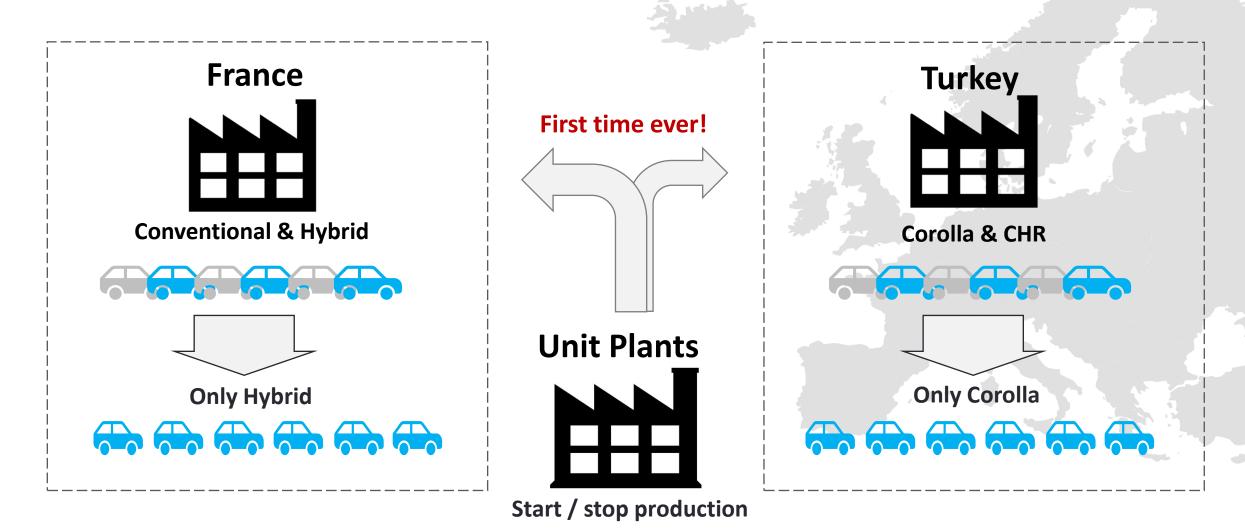
# TPS EXAMPLE – SEMI CONDUCTOR SHORTAGE





## TPS EXAMPLE – SEMI CONDUCTOR SHORTAGE

Plants efforts: Reduce parts supply impact to deliver the best outcome for our customers



### **TOYOTA FOR THE FIRST TIME EVER - # 2 IN THE 2021 PC MARKET IN EUROPE** FROM 7TH IN 2018 TO A SOLID PODIUM POSITION

	TTL Europe	J	lan-Dec 18			TTL Europe	Jan-Dec 19				TTL Europe	Jan-Dec 20				TTL Europe	Jan-Dec 21			
	PC only	'000 units	vs LY	MS%		PC only	'000 units	vs LY	MS%			PC only	'000 units	vs LY	MS%		PC only	'000 units	vs LY	MS%
	TOTAL	18,280				TOTAL		100.4%				TOTAL	14,527		100%		TOTAL	14,428		100%
1						1					1				,	1				
2						2					2					2	Toyota	920	111.0%	6.4%
3						3					3	Toyota	828	89.2%	5.7%	3				
4				I	4	4					4					4				Ĩ
5				, I		5	1				5				,	5				Ĩ
6		1				6 Toyota	928	103.3%	5.1%	•	6					6				ļ
7	Toyota	898	103.9%	4.9%		7	1	1			7					7				l
8		1				3					8					8				,
9					9	9					9					9				1
10					1	0					10					10				,
11					1	1					11					11				
12				1	1	2					12					12				
13					1	3					13					13				

Q1 2022: TOYOTA MARKET SHARE ROSE TO A RECOD HIGH OF 7.6%





