Försörjningshistorik

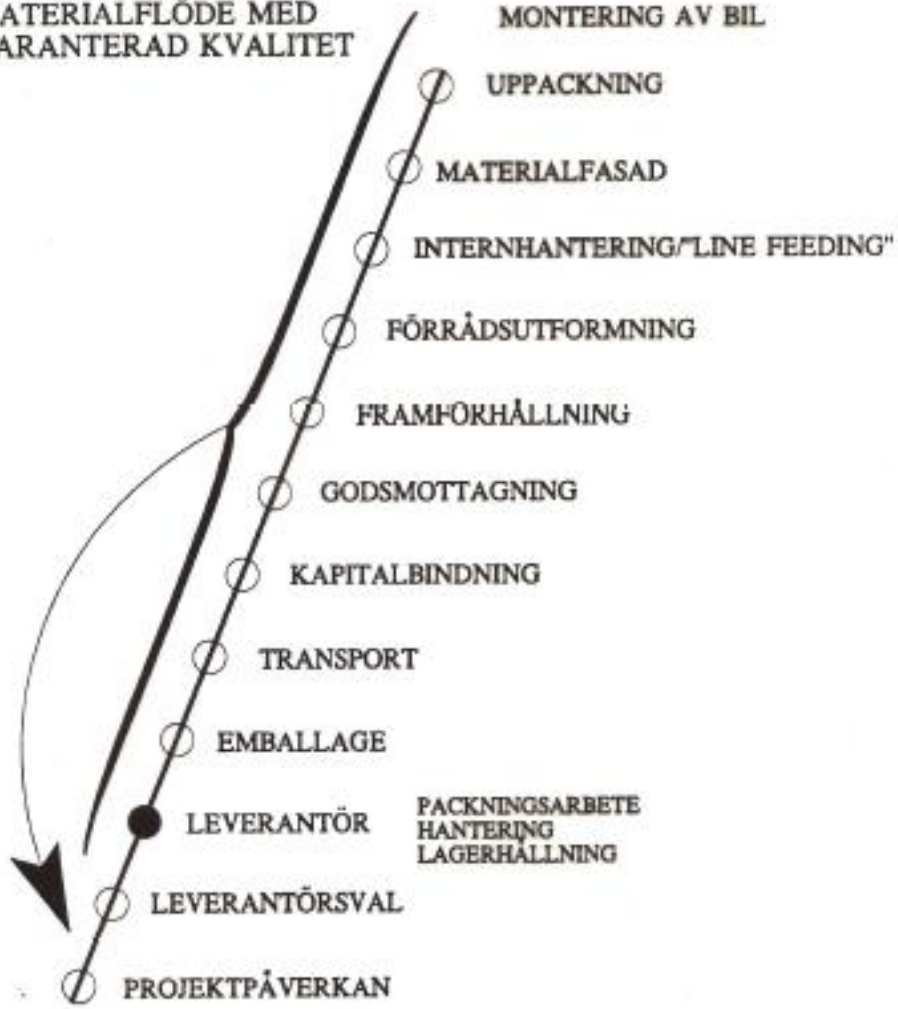
Logistiknostalgi

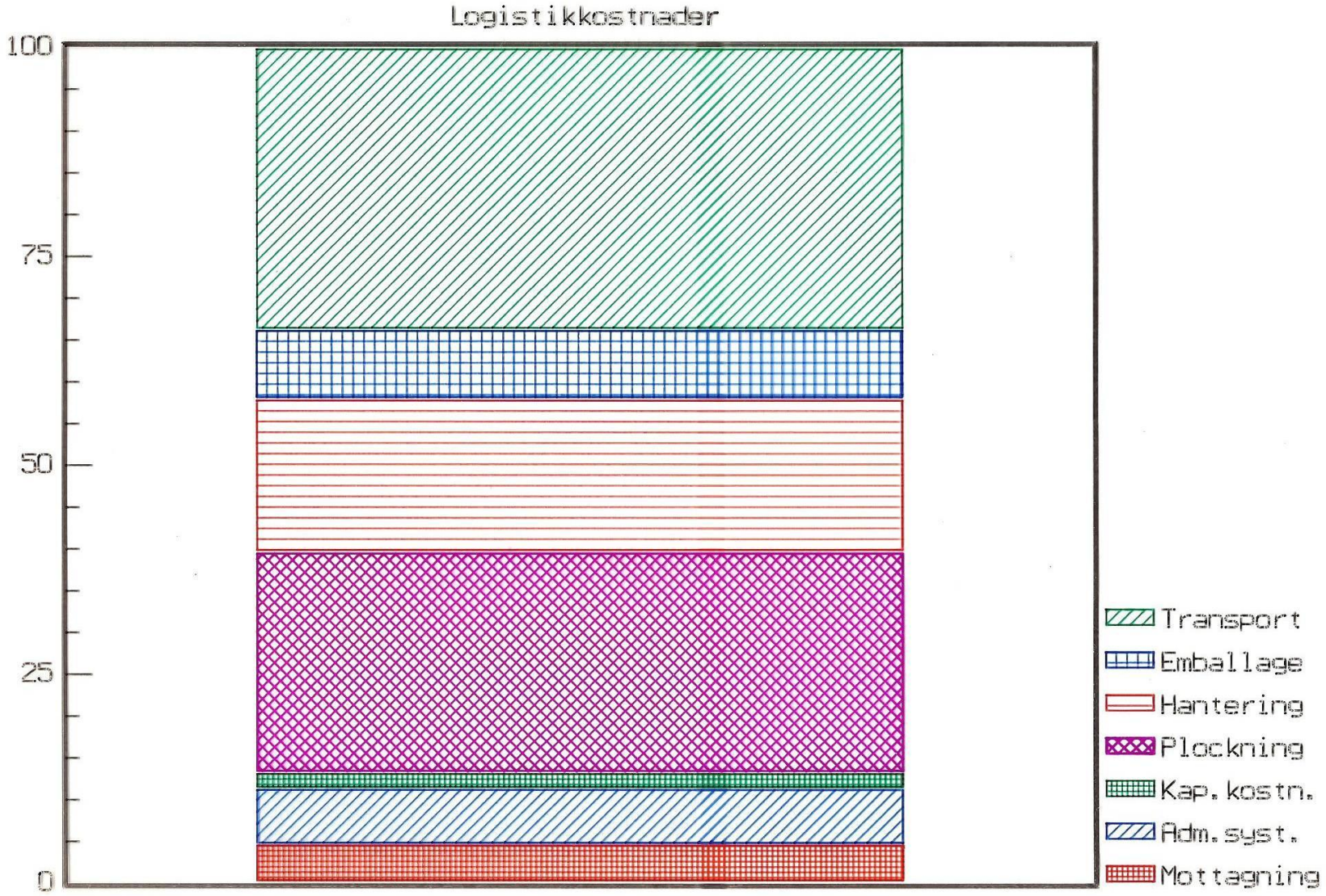
Urban Bjöörn
Lars Bolminger

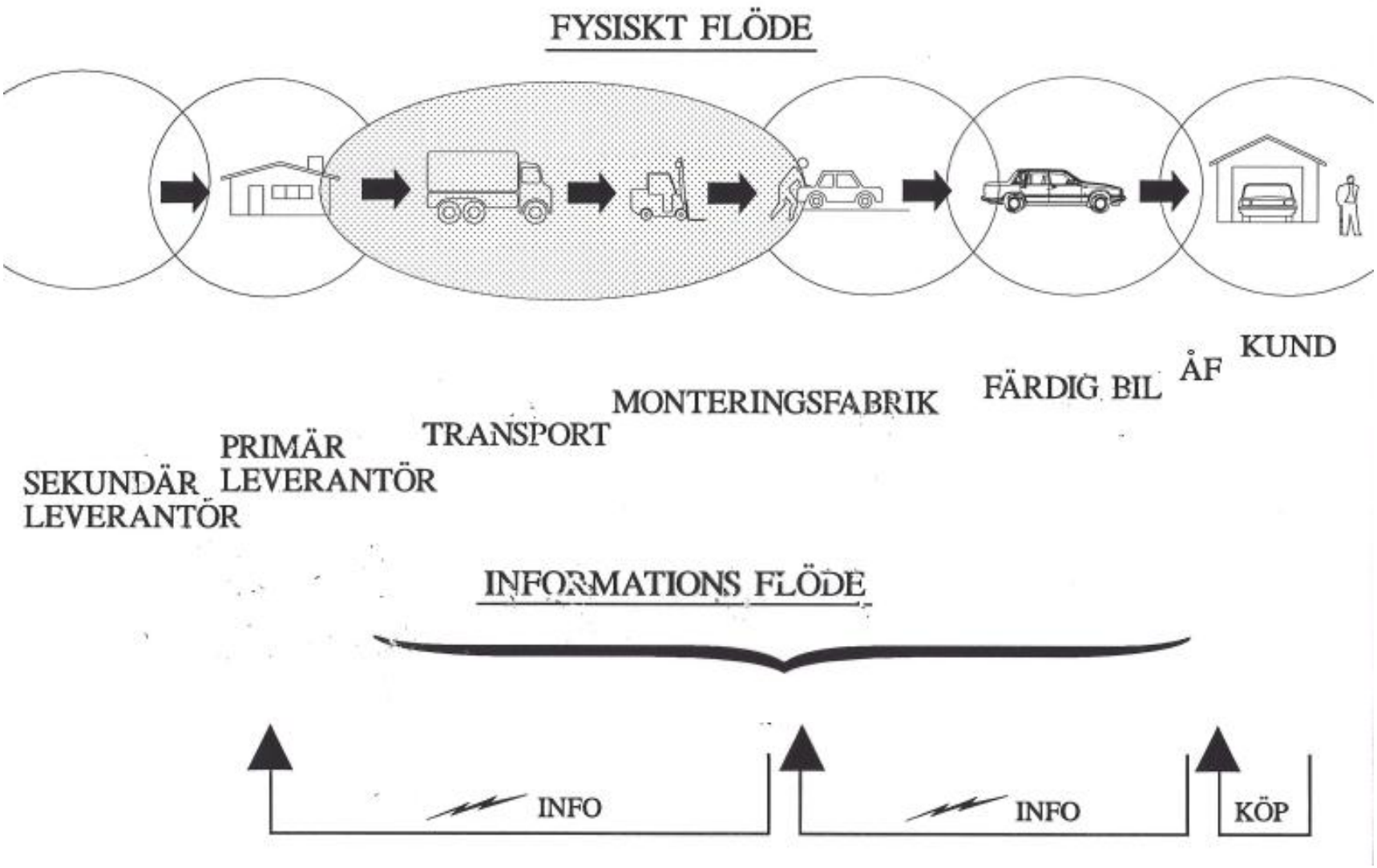
NAF/ Odetteseminarium den 7 februari 2013

LOGISTIK

ETT BALANSERAT
MATERIALFLÖDE MED
GARANTERAD KVALITET




Logistikkostnader
100
75
50
25
0
Transport
Emballage
Hantering
Plockning
Kap. kostn.
Adm. syst.
Mottagning

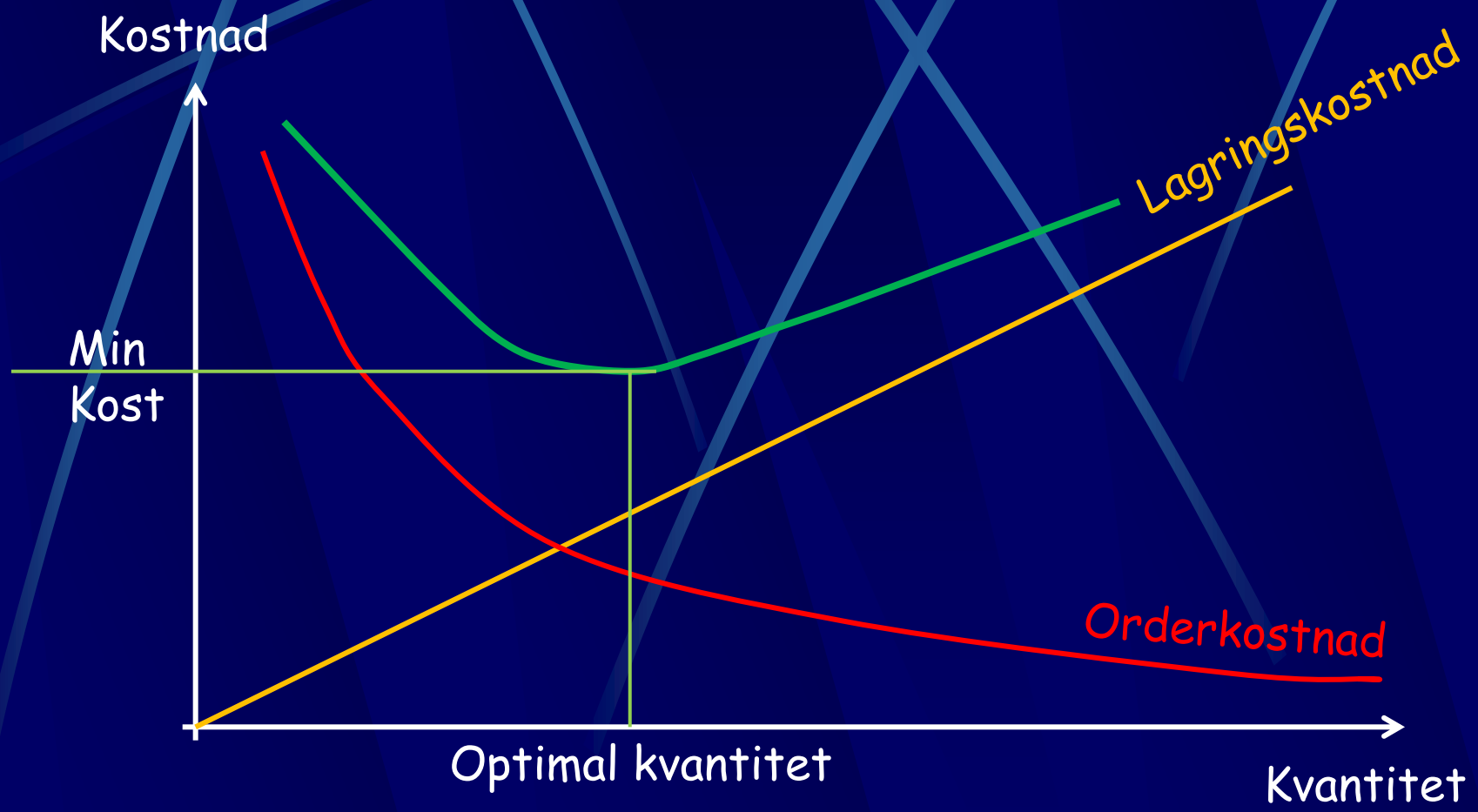

FYSISKT FLÖDE
SEKUNDÄR LEVERANTÖR
PRIMÄR LEVERANTÖR
TRANSPORT
MONTERINGSFABRIK
FÄRDIG BIL
ÅF
KUND
INFORMATIONS FLÖDE
INFO
INFO
KÖP

Wilsonformeln

$$Q = \sqrt{\frac{2\,N\,P}{U\,B}}$$

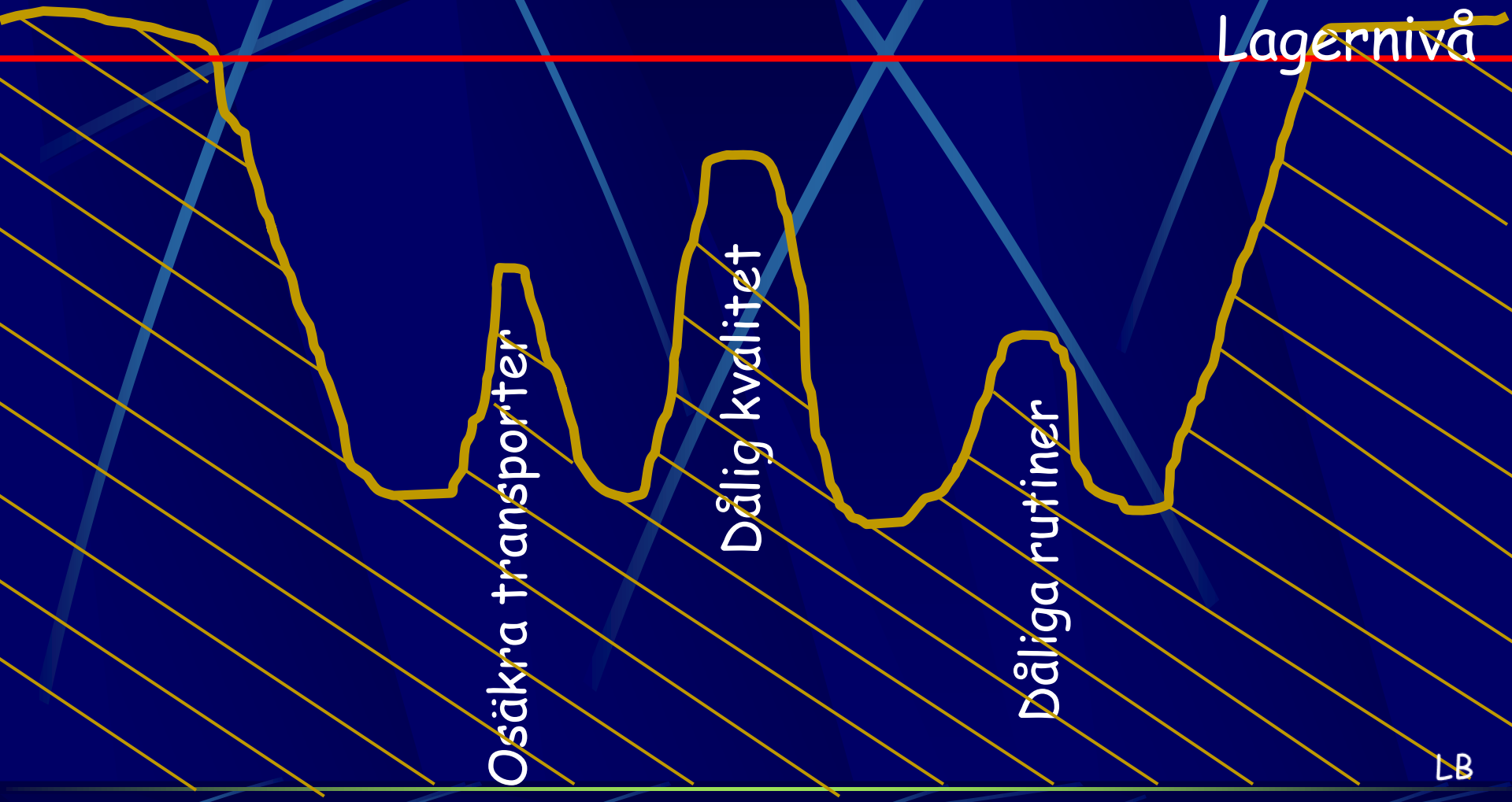
Q = Optimal orderkvantitet
N = Antal artiklar
P = Ordersärkostnad per styck
U = Lagerhållningsränta
B = Styckpris

Wilsonformeln

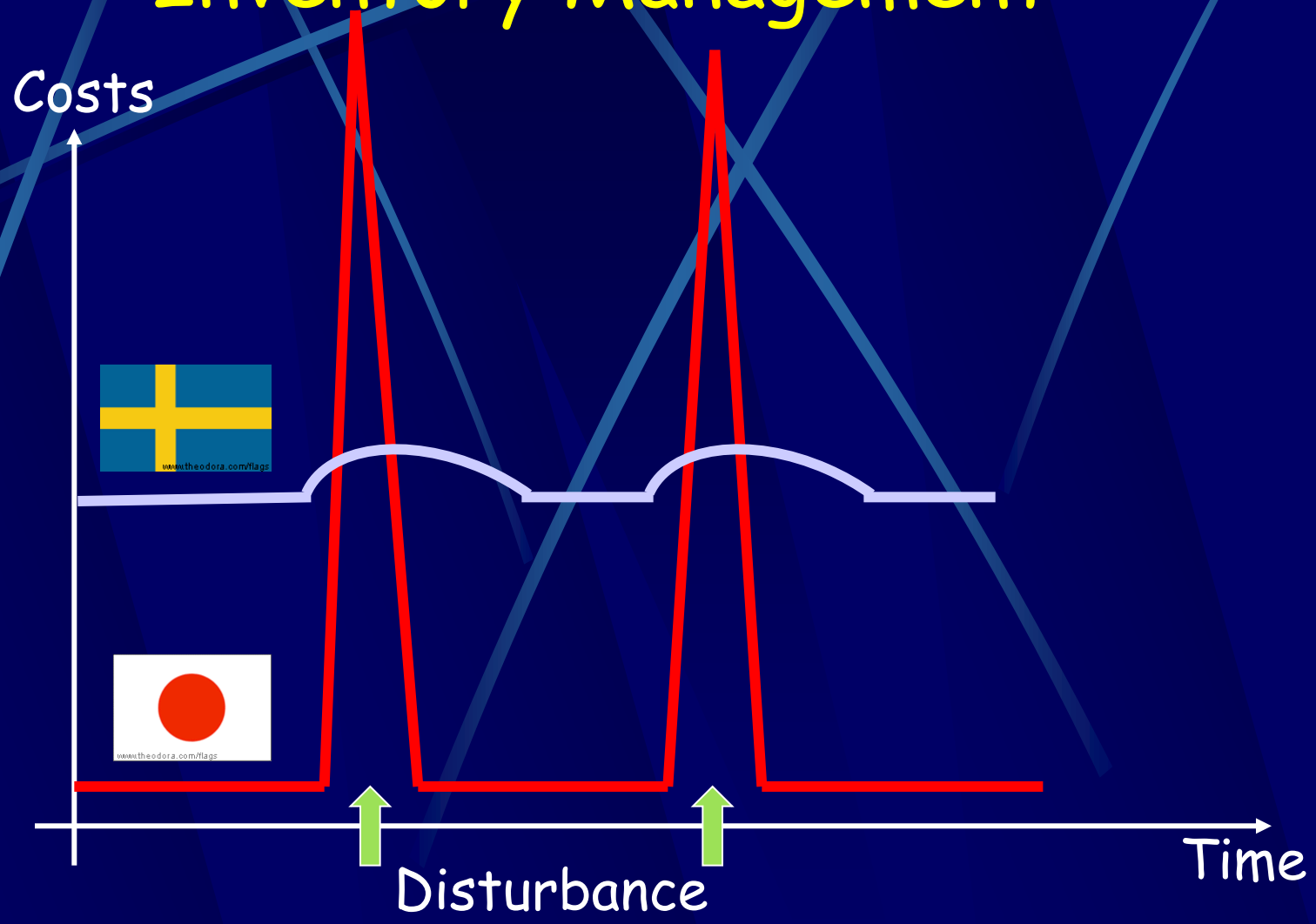


LB

Den japanska sjön



Inventory Management



LB

Leveransplaner

Kund
Datakörning

Leverantör
Datakörning

Före 1987

Inmatning

Utskrift

Kuvertering

LB

Electronic Data Interchange

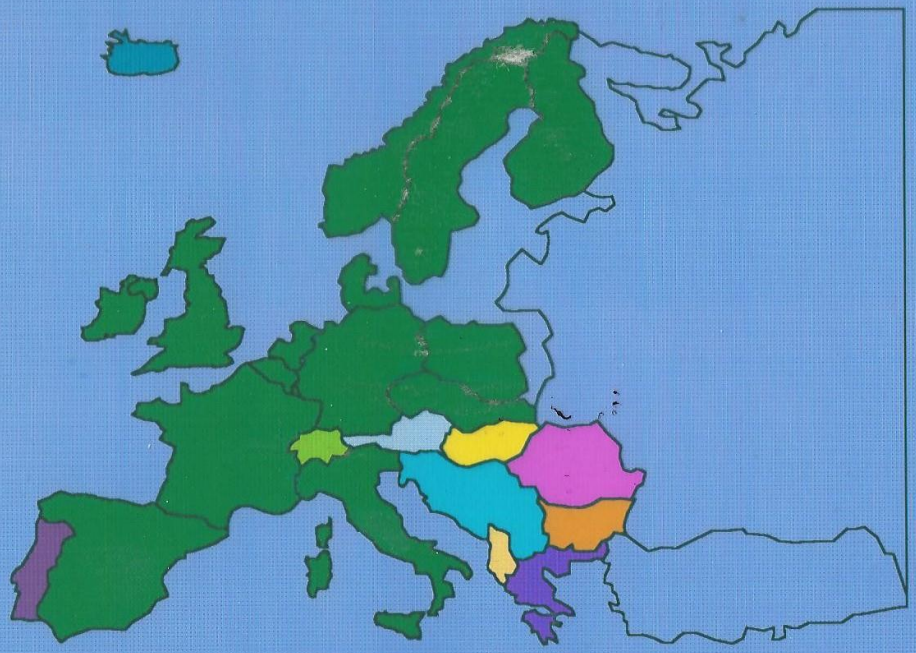
Kund

Leverantör

ODETTE

LB

Odette countries



- Kan – ban
- JIT = Just in Time
- Milk Runs
- Automatiskt höglager
- Blålådor
- Två binge systemet

RECEIVER
CAR IND. CORP.
ENGLAND

DOCK/GATE
352
R7648

ADVICE NOTE NO (K) 1030046

SUPPLIER ADDR
SUPPLIER XXX

NET WT (KG)	GROSS WT (KG)	NO OF BOXES
100	100	16–

PART NO (P) 1234567

QUANTITY (Q) 100

DESCRIPTION
PLASTIC BRACKET

SUPPLIER PART NO 200010797

SUPPLIER (V) 25891

PROD DATE	ENG CHANGE
900307	P–021

SERIAL (SNAG) 200000172

BATCH NO (H) 9003005

Odette Ver 1 Rev.4

Volvo emballage

Automatisk godsmottagning Höglager

GLOBETROTTER
DAF
PX06 AWW

New demands on logistics

1. Platform
2. Modules
3. Customer Ordered Production

} New Industrial Structure

Modules

- ✓ A component/system you can assemble
- ✓ A physical part
- ✓ Something you can grab
- ✓ All modules bulid a car.

Mats Boll's List

- ✓ Powerpack (Engine + Transmission)
- ✓ Cockpit
- ✓ Seats
- ✓ Headliner
- ✓ Door panels
- ✓ Carpets
- ✓ Electricity
- ✓ Luggage compartment
- ✓ Exhaust system
- ✓ Wheels
- ✓ Windows
- ✓ Sunroof
- ✓
- ✓

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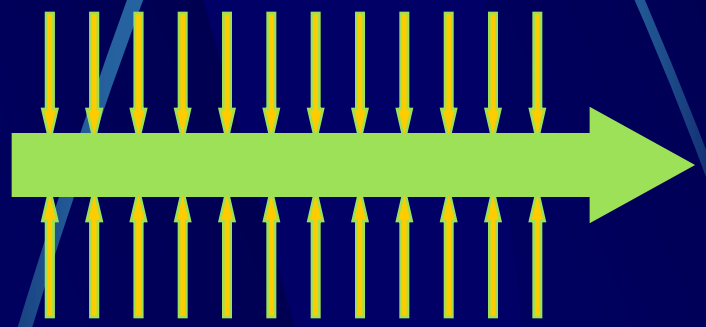
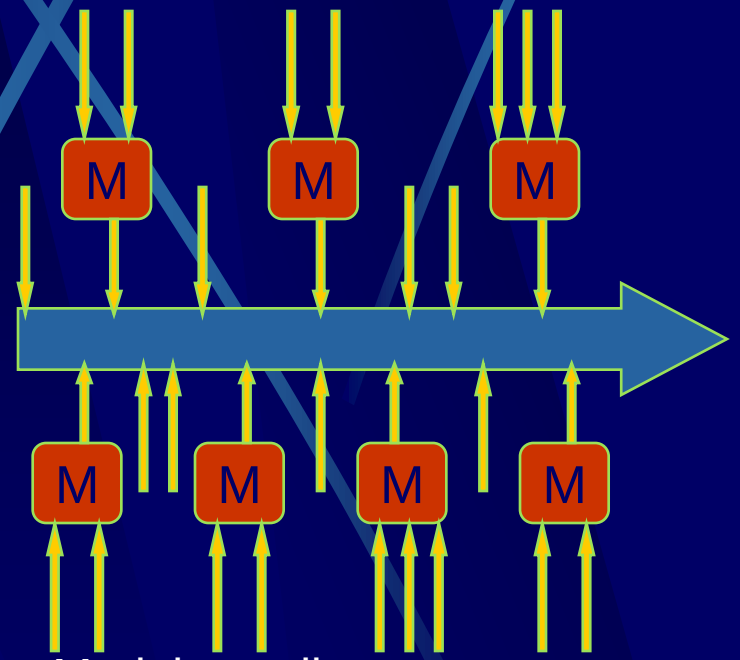
Change in supplier structure

From:



- Many direct suppliers
- Many direct contacts
- High in house engineering

To:



- Modul suppliers
- Few direct suppliers
- The suppliers takes engineering responsibillity
- Second tier suppliers insrease

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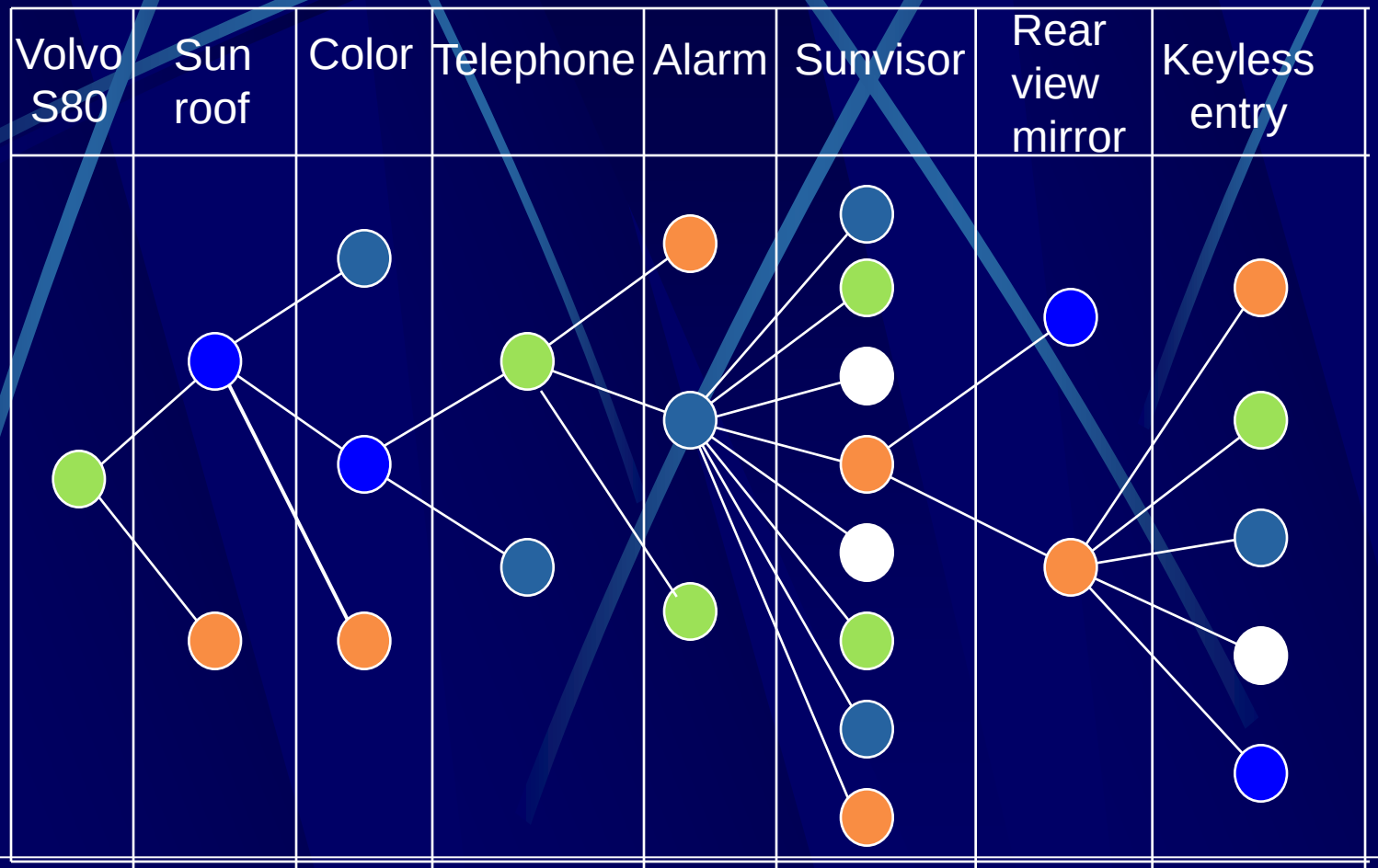
Headline module variants



Variants	2	3	2	3	8	2	5	**= 2880**

Outsourcing

- Increased responsibility to supplier
- Both product development & process

- Concentrate on strategic technique
- Focus gives shorter lead time
- Increased quality and productivity

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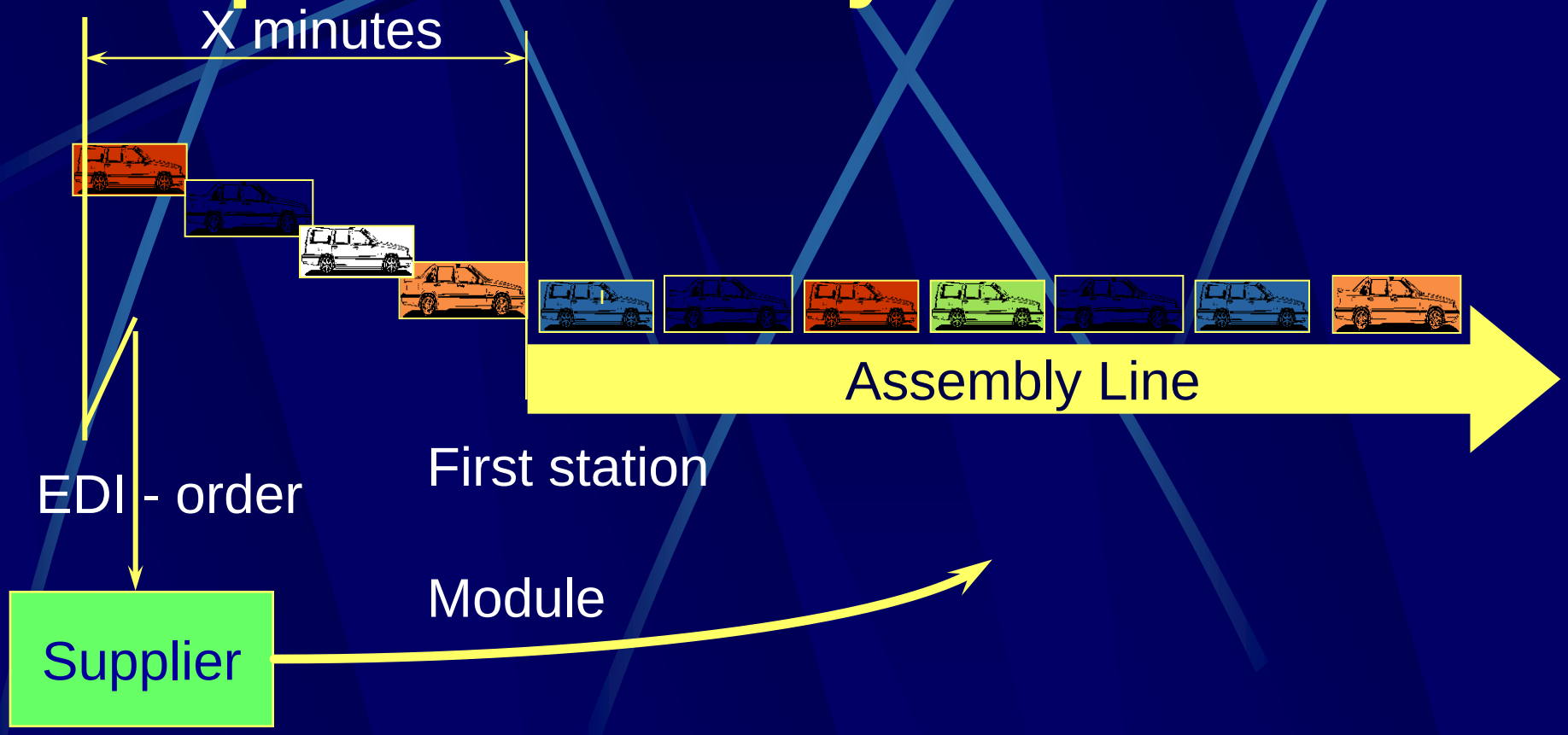
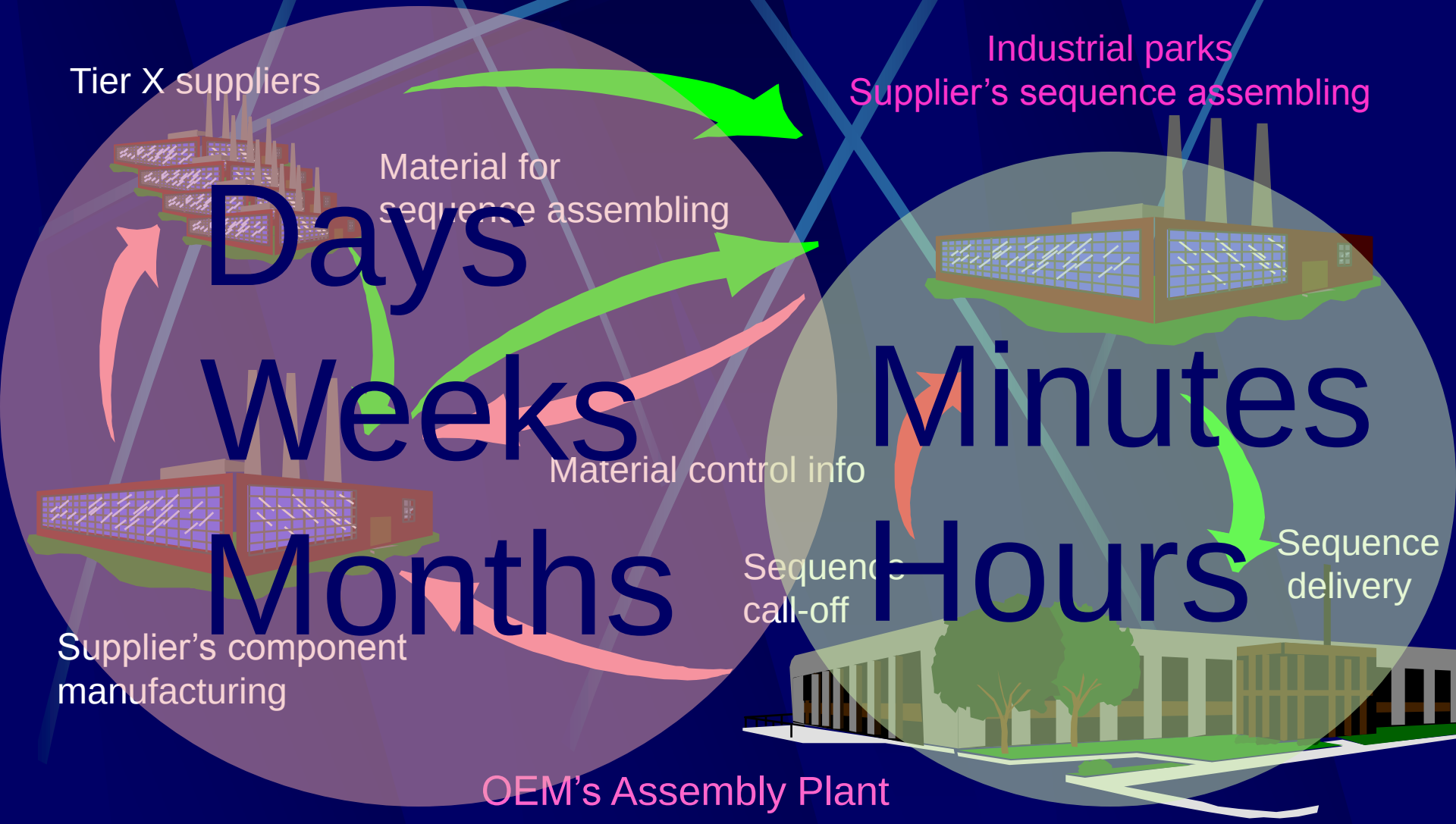
Customer Ordered Production

Short lead-time and high precision

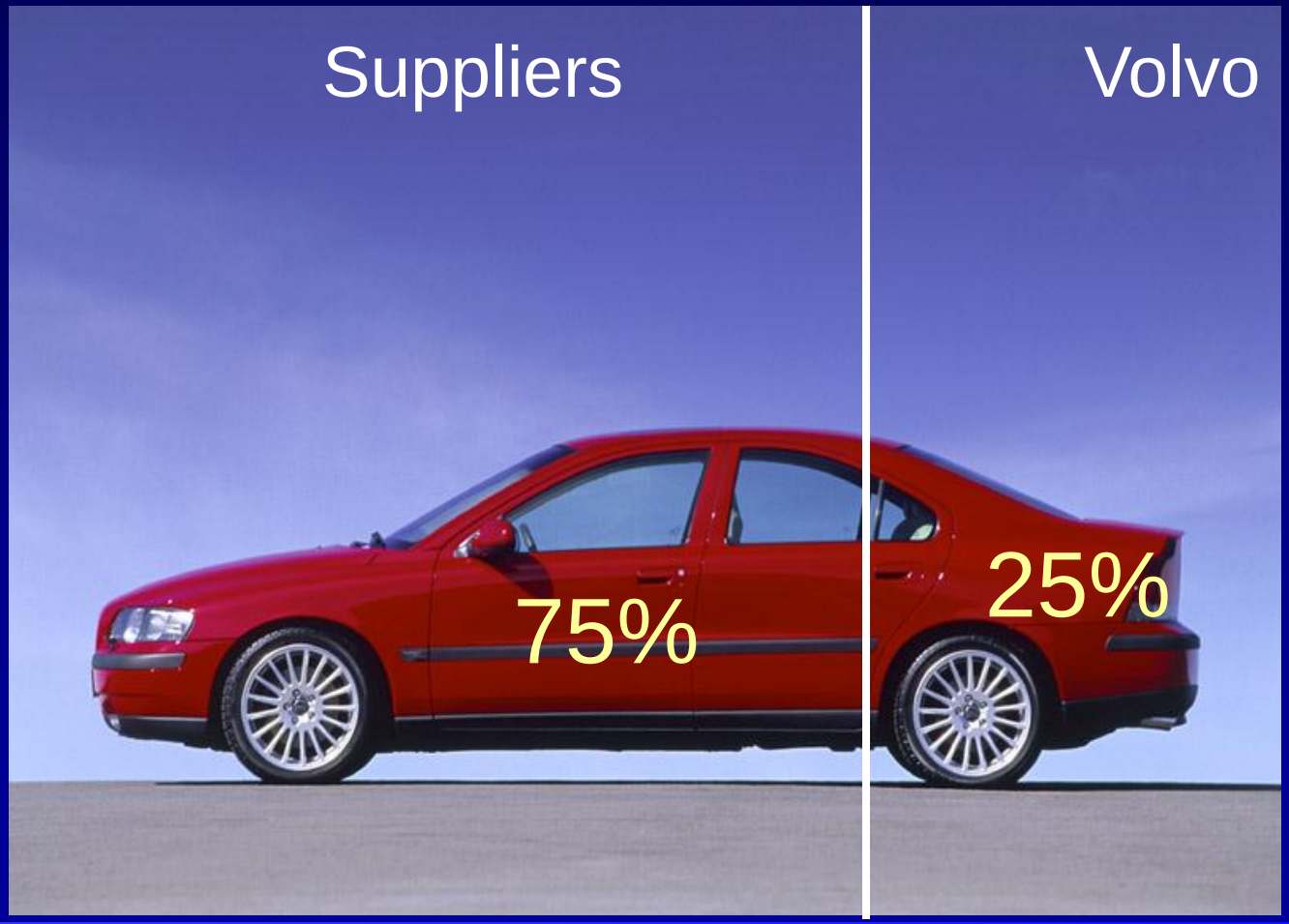
Sequence Delivery



Industrial Park concept / Sequence delivery



Manufacturing Cost



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Supply Chain Management

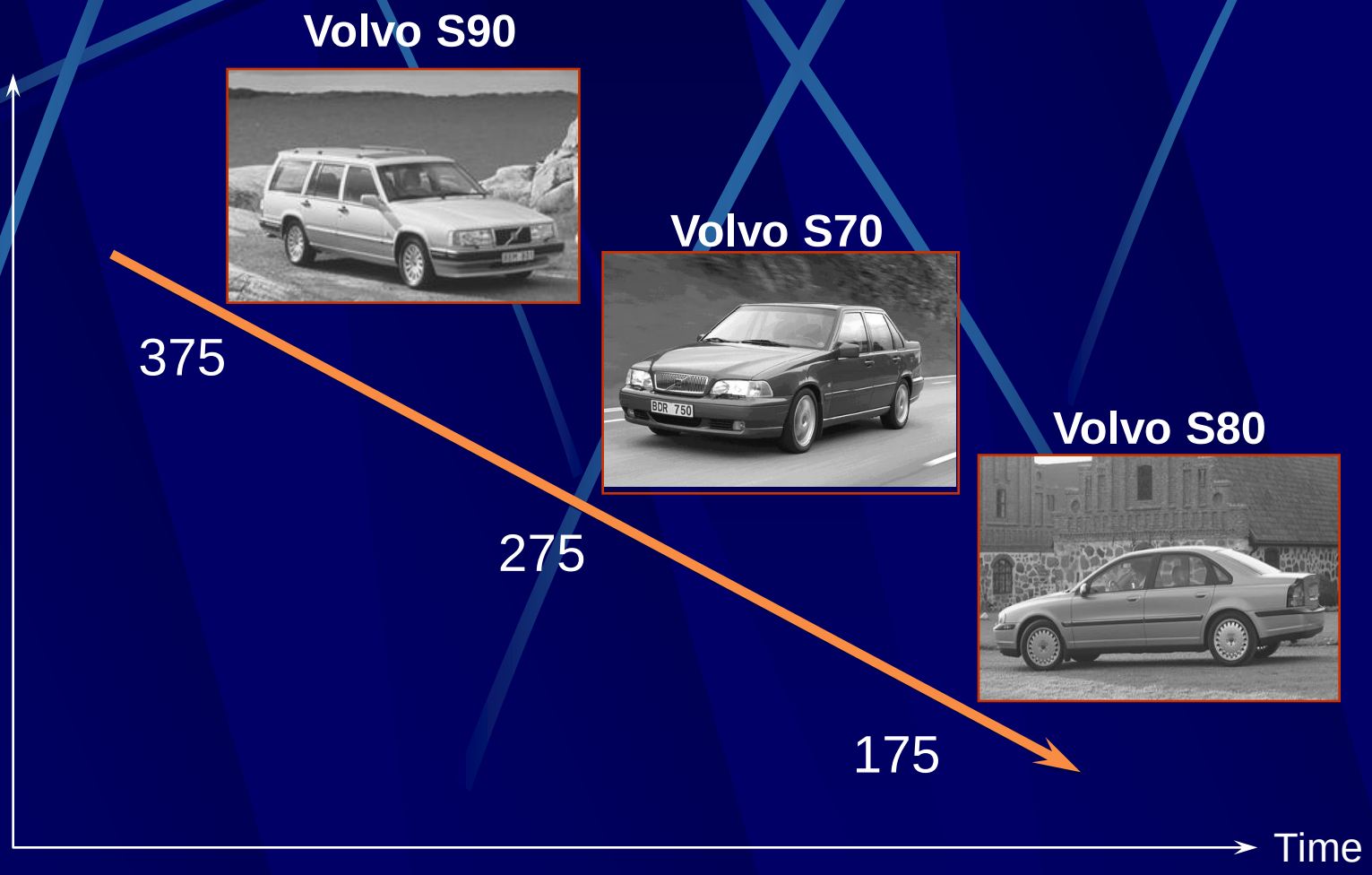
Deliveryschedules / Forecast (Weekly / Monthly)

Call Off (Weekly / Daily)

Sequence Delivery (/ Product / Minute)

Fewer suppliers

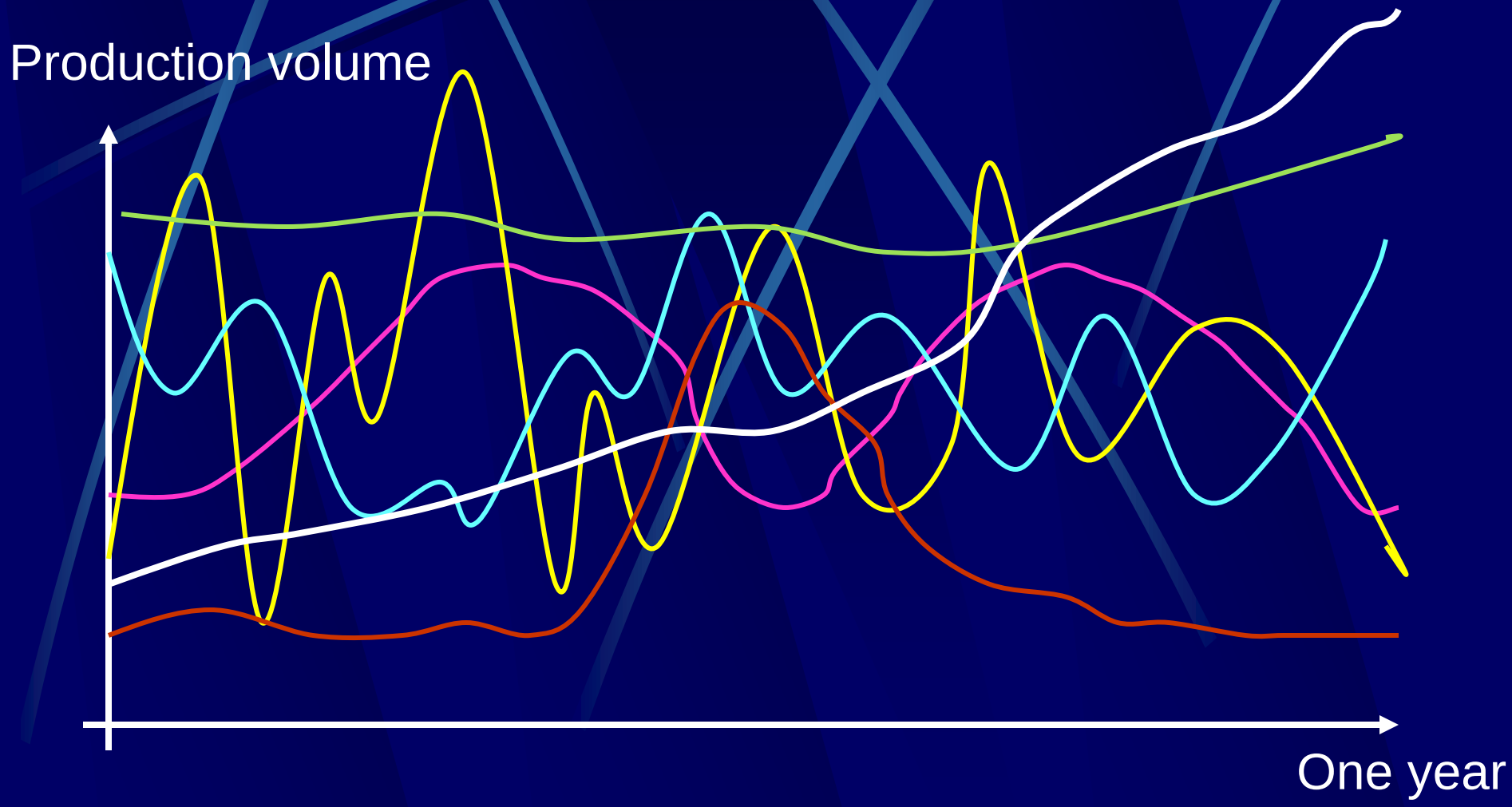
Effect of single sourcing and system components



Demanding Customers

- ✓ Excellent products
- ✓ Excellent Quality
- ✓ Personal variants
- ✓ Short lead-time
- ✓ Delivery Precision
- ✓ Competitive cost.

Flexibility



Requirements for Just-In-Time

- ✓ Quality – Zero defects
- ✓ Excellent housekeeping
- ✓ Everybody knows what to do
- ✓ Optimised material flow
- ✓ Efficient administration
- ✓ Deliveries on time
- ✓ Visible material flow
- ✓ …..

High productivity !

Requirements

- ✓ Short response time and 100 % accurate information
- ✓ Lean and flexible production
- ✓ Management of different supply chains with different frequences
- ✓ Integration accross the entire supply chain
- ✓ Co-operation between competitors
- ✓ Multiple relations steered by customer needs
- ✓ Fast and reliable IT solutions
- ✓ Event Management Control.

To the lowest possible cost

Flow of phase

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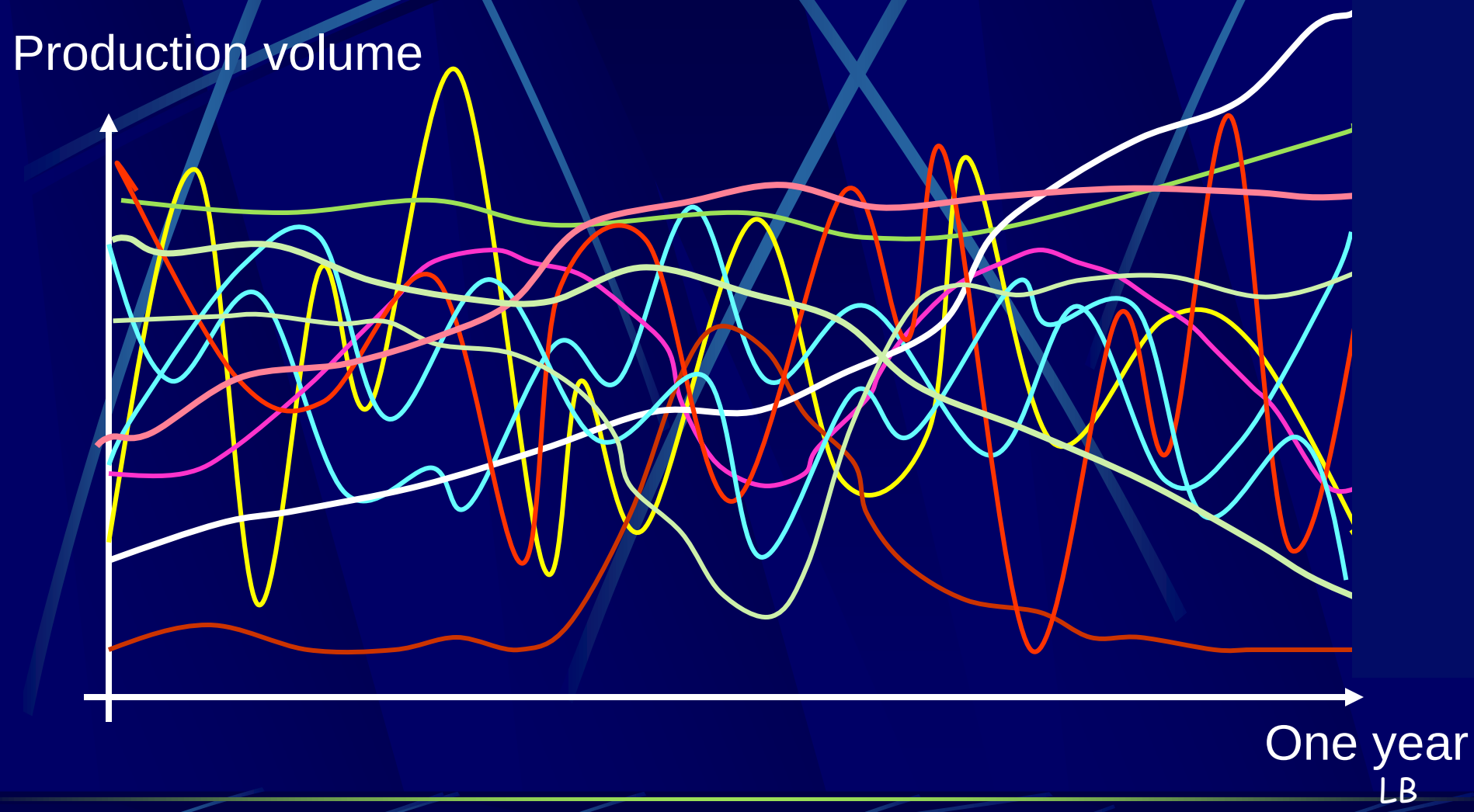
Never loose control !!!



Q & A