ERP Simulation Game



Last Update: July 13, 2021

LOGISTICS **PLATINUM**

A Serious Game for Learning **Enterprise Resource Planning Concepts**

Powered by **ERPsim** Compatible with SAP™ ERP ECC and Business Suite on HANA

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Robert PELLERIN **Bret WAGNER**





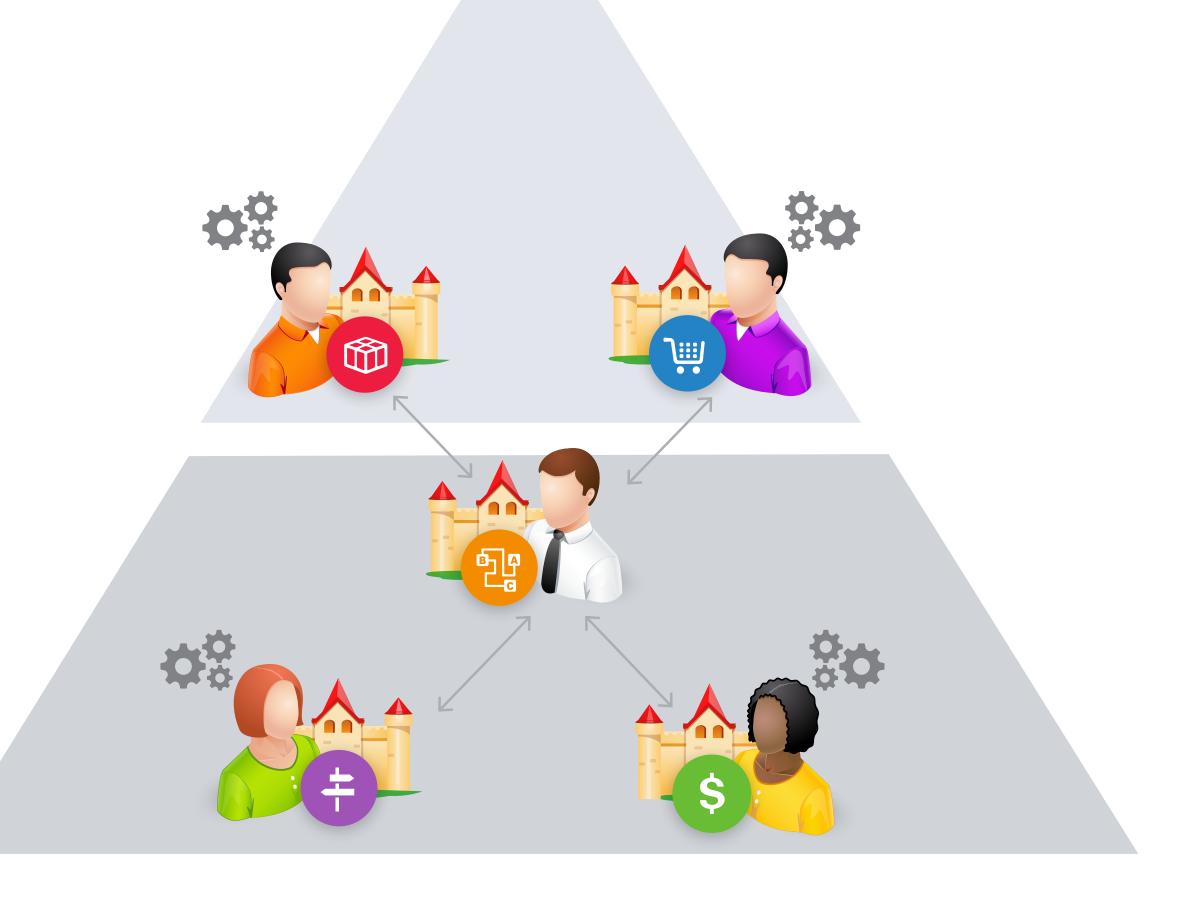


Communication in Round 1



The Planning Manager needs to circulate between team members in order to ensure a good communication.

Please note that you should not communicate with your teammates by screen sharing.



Cost, Initial Prices, and Initial Inventory













	MILK \$\$-T01	CREAM \$\$-T02	YOGHURT \$\$-T03	CHEESE \$\$-T04	BUTTER \$\$-T05	ICE CREAM \$\$-T06
Product cost	€22.95	€72.07	€25.85	€82.68	€59.88	€43.15
Initial price	€25.25	€79.78	€28.43	€90.95	€65.87	€47.47
Initial stock	950	300	700	350	400	300



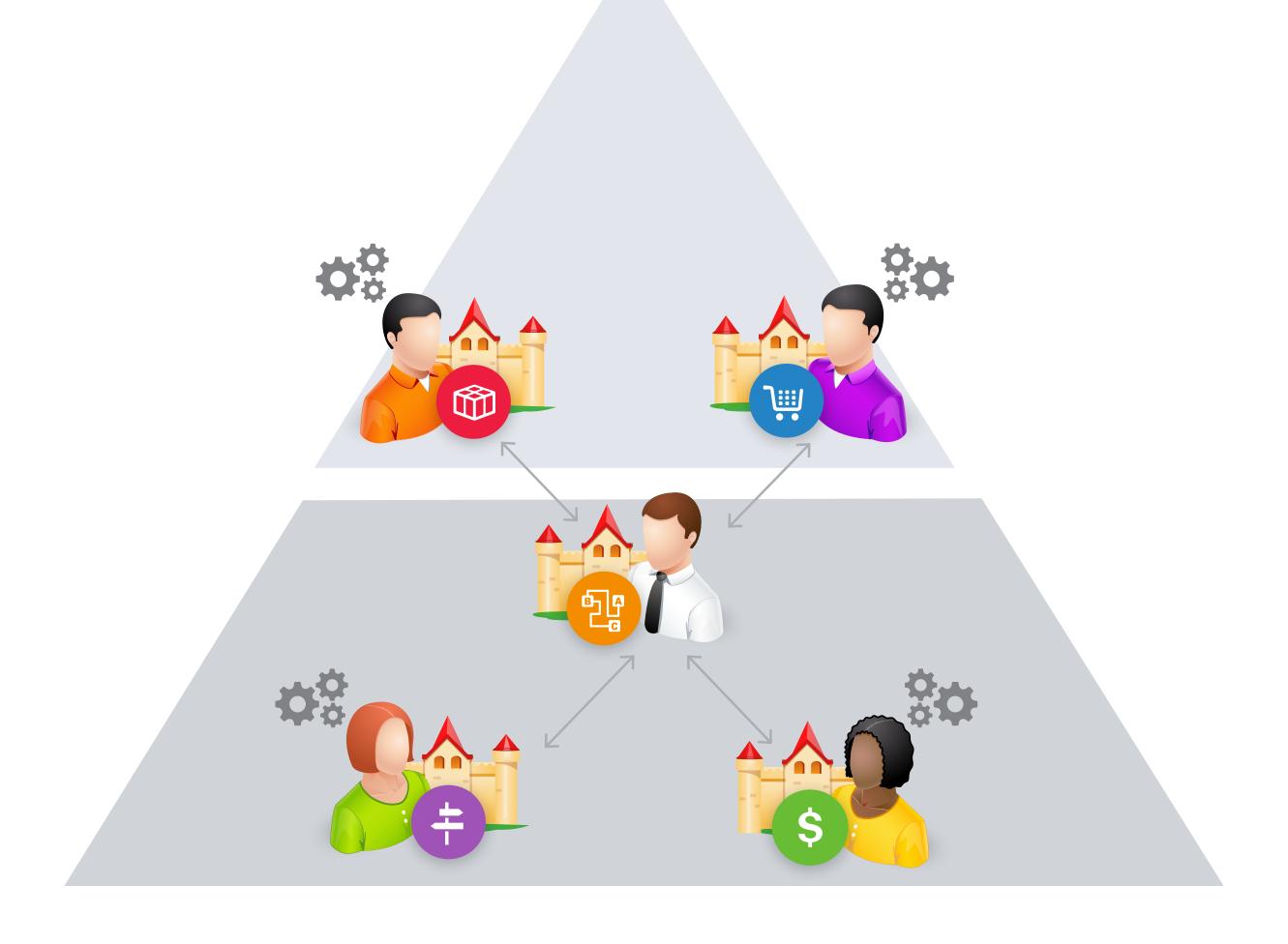


Let's play round 1: 10 virtual days

Debriefing Round 1

- What are your first impressions?
- How was the communication during Round 1?
- What information was exchanged among teammates?
- 4- Who took the decisions in your team?
- Were you satisfied with the team organization in your group?

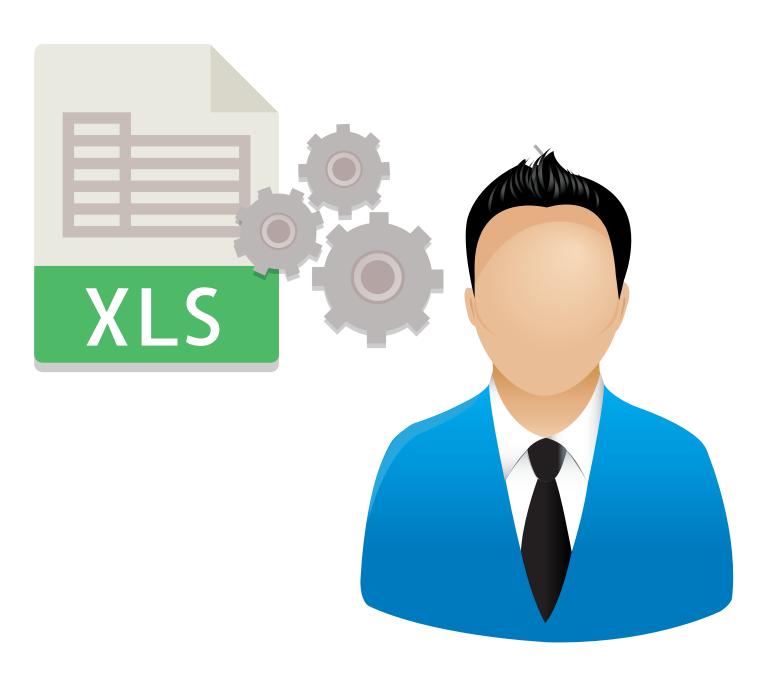
Working in Silos





Shadow IT

Have you used Excel?



Andrew McAfee. (2006). Mastering the Three Worlds of Information Technology. Harvard Business Review, 84(11), 141-149.

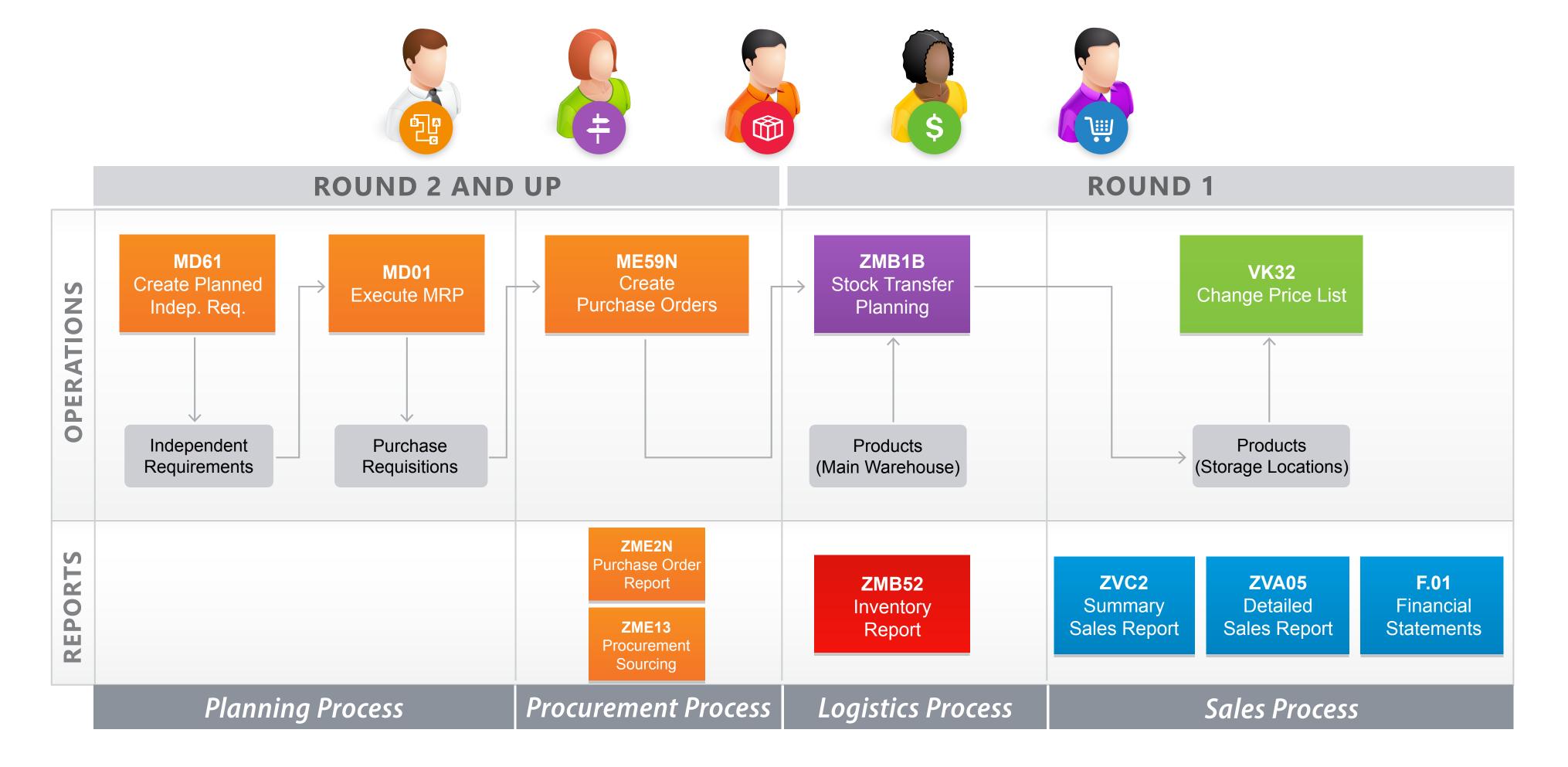


Replenishment

- Now you need to replenish your stock.
- In Round 2, you will be able to adjust and change your replenishment levels.
- Replenishment should occur at least every 5 days.

	\$\$-T01	\$\$-T02	\$\$-T03	\$\$-T04	\$\$-T05	\$\$-T06
Name	Milk	Cream	Yoghurt	Cheese	Butter	Ice Cream
Delay	1	1	1	1	1	1
Initial stock	950	300	700	350	400	300

Game Layout - Business Processes







Planning Manager



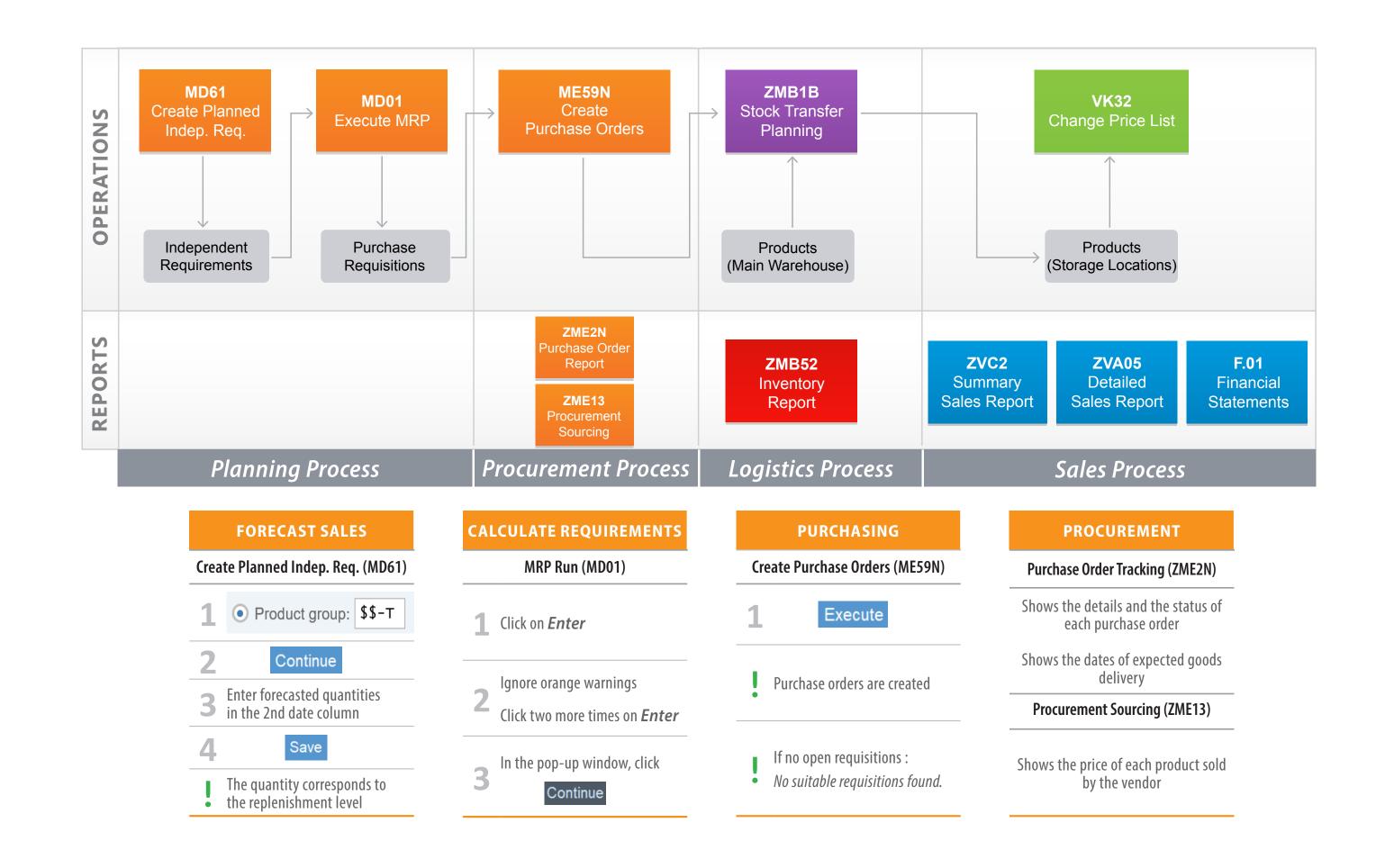
PLANNING MANAGER

Login:

\$_planning

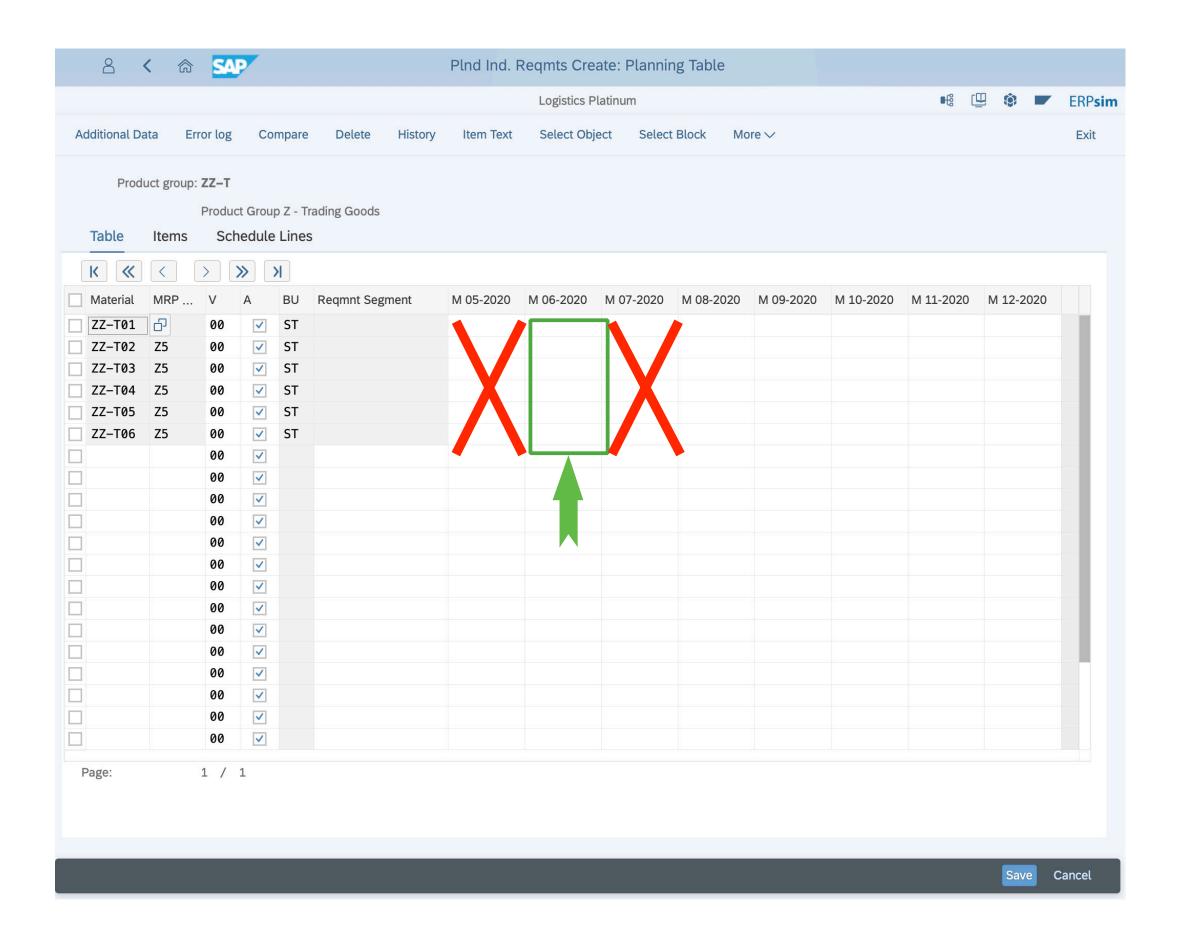
Password:

ERPSIM



Forecast Sales

Create Planned Indep. Req. (MD61) 1 Product group: \$\$-T 2 Continue 3 Enter forecasted quantities in the 2nd date column 4 Save I The quantity corresponds to the replenishment level







Execute MRP

CALCULATE REQUIREMENTS

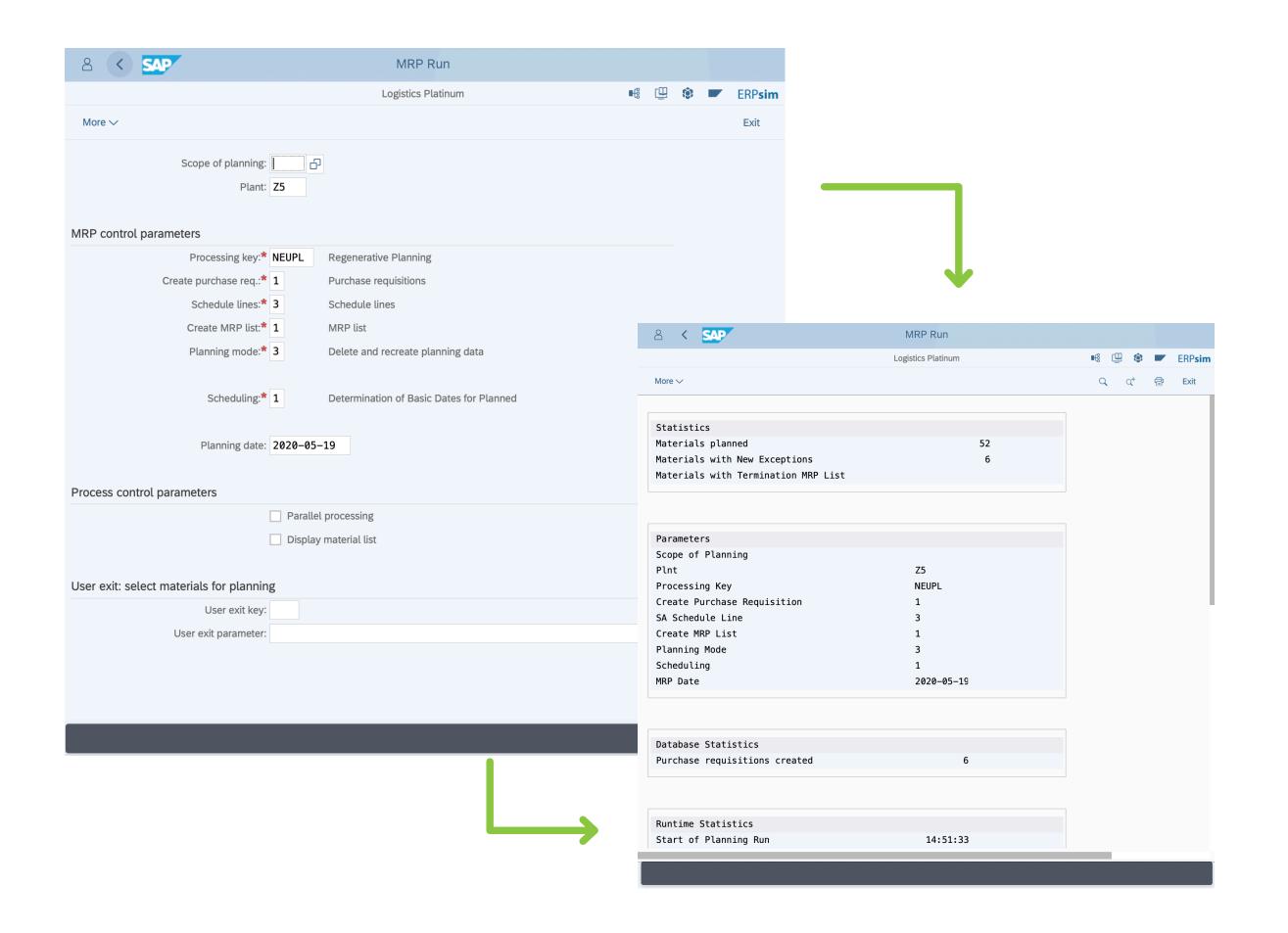
MRP Run (MD01)

1 Click on *Enter*

2 Ignore orange warnings
Click two more times on *Enter*

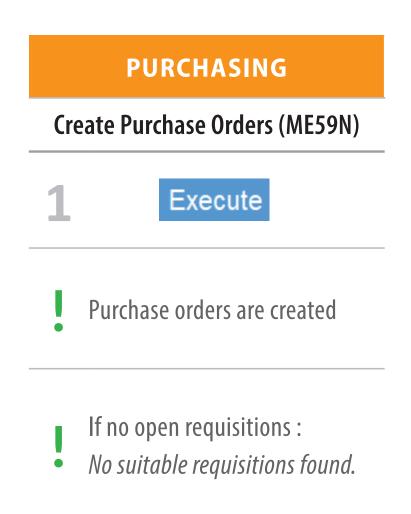
In the pop-up window, click

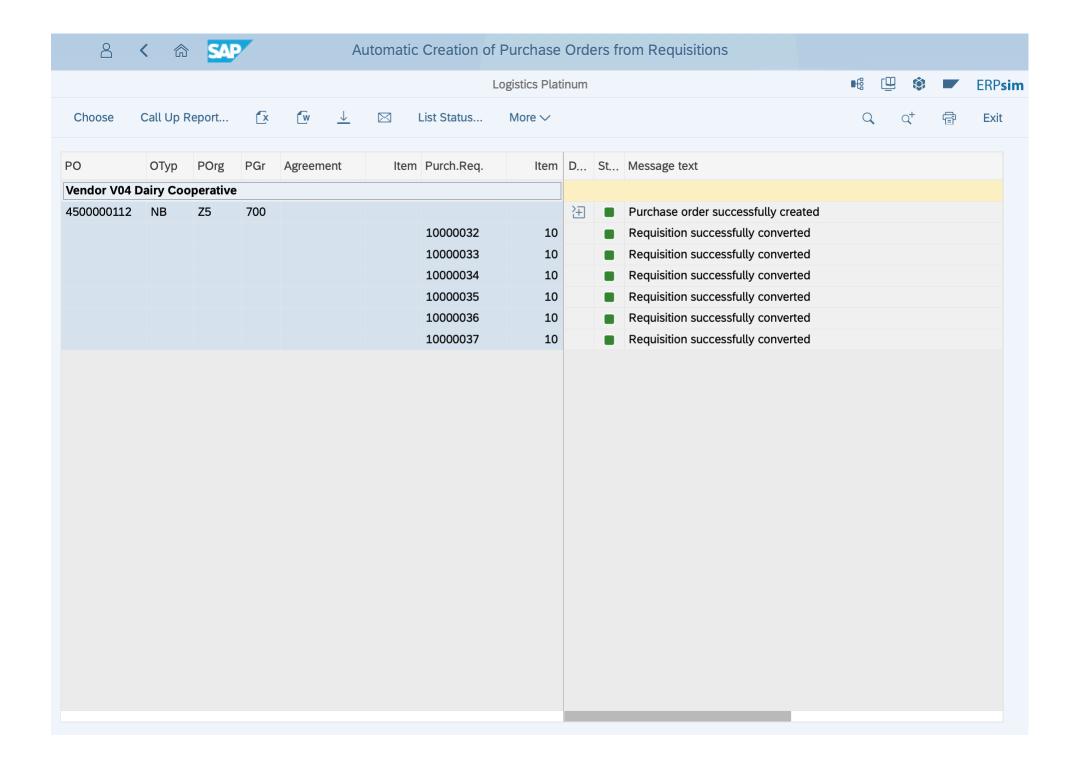
Continue





Convert Purchase Requisitions to Purchase Orders







Track Purchase Orders

PROCUREMENT

Purchase Order Tracking (ZME2N)

Shows the details and the status of each purchase order

Shows the dates of expected goods delivery

Procurement Sourcing (ZME13)

Shows the price of each product sold by the vendor

				Log	sistics Platinum				•{	<u> </u>		ER
Refresh Rep	ort Data	More ✓										Е
Purchase O	rder Track	ing: Round 2 Day 09										
		$+ \left \sum \vee \right \left \sum \vee \right \right $			li							
Order	Vendor	Material Description	Quantity	Price	Price Unit	Value	Status	Goods				
4500000112	V04	Cream	74	72.07	1	5,333.18	Delivered	2/09				
		Yoghurt	500	25.85	1	12,925.00	Delivered	2/09				
		Cheese	134	82.68	1	11,079.12	Delivered	2/09				
		Milk	601	22.95	1	13,792.95	Delivered	2/09				
		Butter	443	59.88	1	26,526.84	Delivered	2/09				
		Ice Cream	375	43.15	1	16,181.25	Delivered	2/09				
4500000111		Ice Cream	300	43.15	1	12,945.00	Delivered	2/01				
		Butter	400	59.88	1	23,952.00	Delivered	2/01				
		Cheese	350	82.68	1	28,938.00	Delivered	2/01				
		Yoghurt	700	25.85	1	18,095.00	Delivered	2/01				
		Cream	300	72.07	1	21,621.00		2/01				
		Milk	950	22.95	1	21,802.50		2/01				
4500000110		Ice Cream	300	43.15	1	12,945.00		1/06				
		Butter	400	59.88	1	23,952.00		1/06				
		Cheese	350	82.68	1	28,938.00		1/06				
		Yoghurt	700	25.85	1	18,095.00		1/06				
		Cream	300	72.07	1	21,621.00		1/06				
4500000400		Milk	950	22.95	1	21,802.50		1/06				
450000109		Ice Cream	300	43.15	1	12,945.00		N.Sch				
		Butter	400	59.88	1	23,952.00		N.Sch				
		Cheese	350	82.68	1	28,938.00		N.Sch				
		Yoghurt	700	25.85	1	18,095.00		N.Sch				
		Cream Milk	300 950	72.07 22.95	1	21,621.00 21,802.50		N.Sch N.Sch				
		IVIIIK	950	22.95	1	21,002.50	Delivered	N.SCII				



Procurement Sourcing

PROCUREMENT

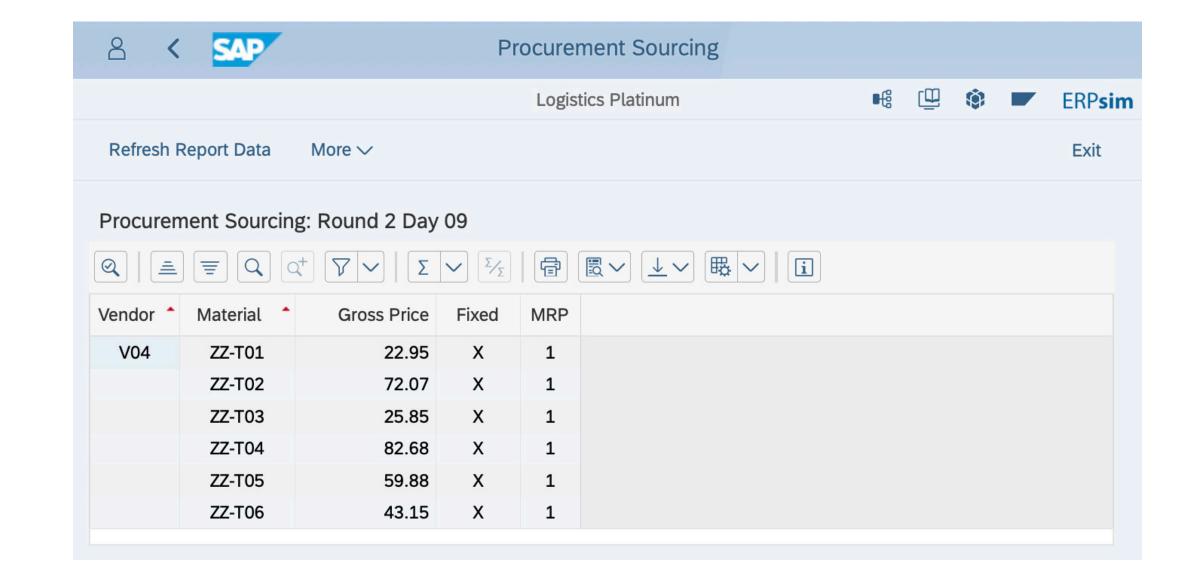
Purchase Order Tracking (ZME2N)

Shows the details and the status of each purchase order

Shows the dates of expected goods delivery

Procurement Sourcing (ZME13)

Shows the price of each product sold by the vendor





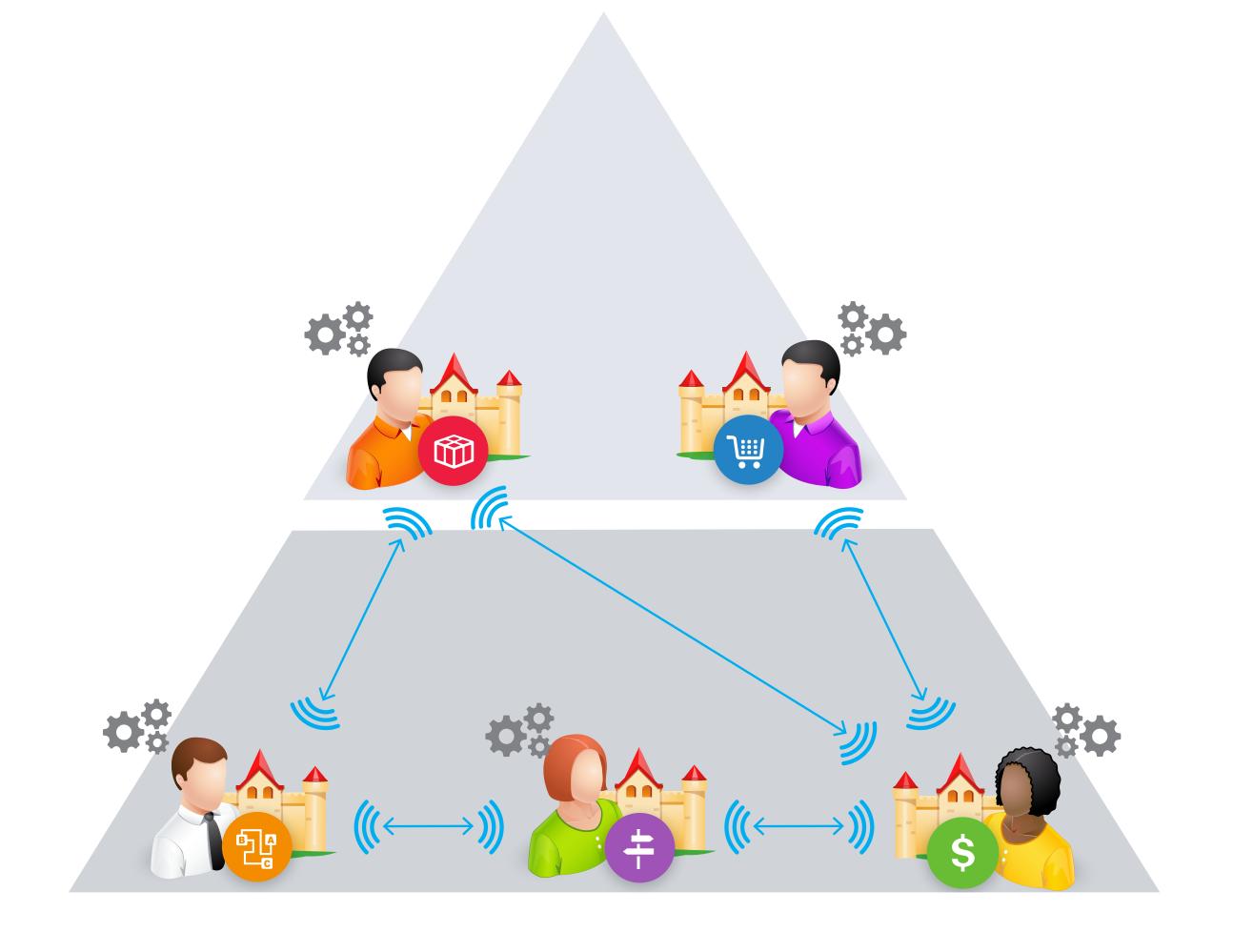


Let's play round 2: 10 virtual days

Debriefing Round 2

- How was the communication during Round 2?
- What information was exchanged among teammates?
- 3 Who took the decisions in your team?
- Were you satisfied with the team organization in your group?

Lack of Integration: Non-value Added Activities





New Logins

Login:

\$_1 to \$_5

Password:

ERPSIM



\$_1

ERPSIM

Login:

Password:



Password:



Login:

\$_2 **ERPSIM**



Login:

Password:

\$_3 **ERPSIM**



\$_4

ERPSIM

Login:

Password:



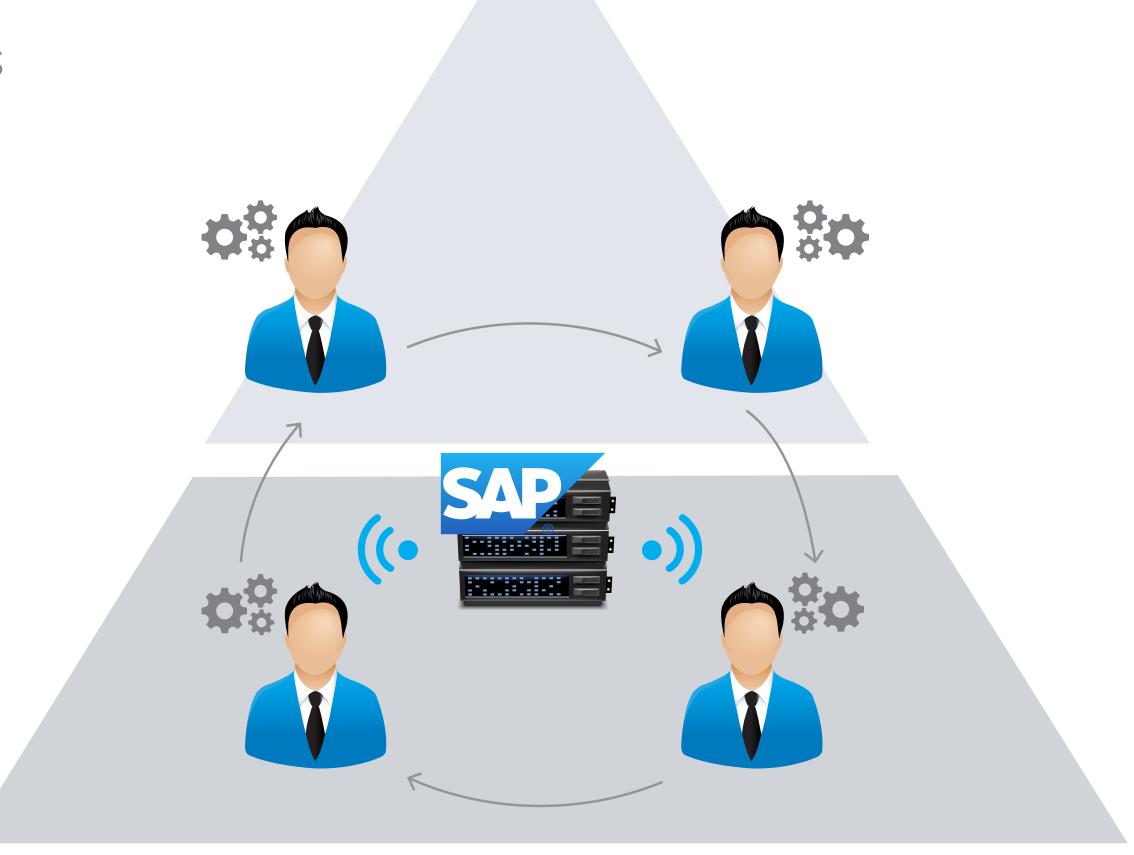
Login:

Password:

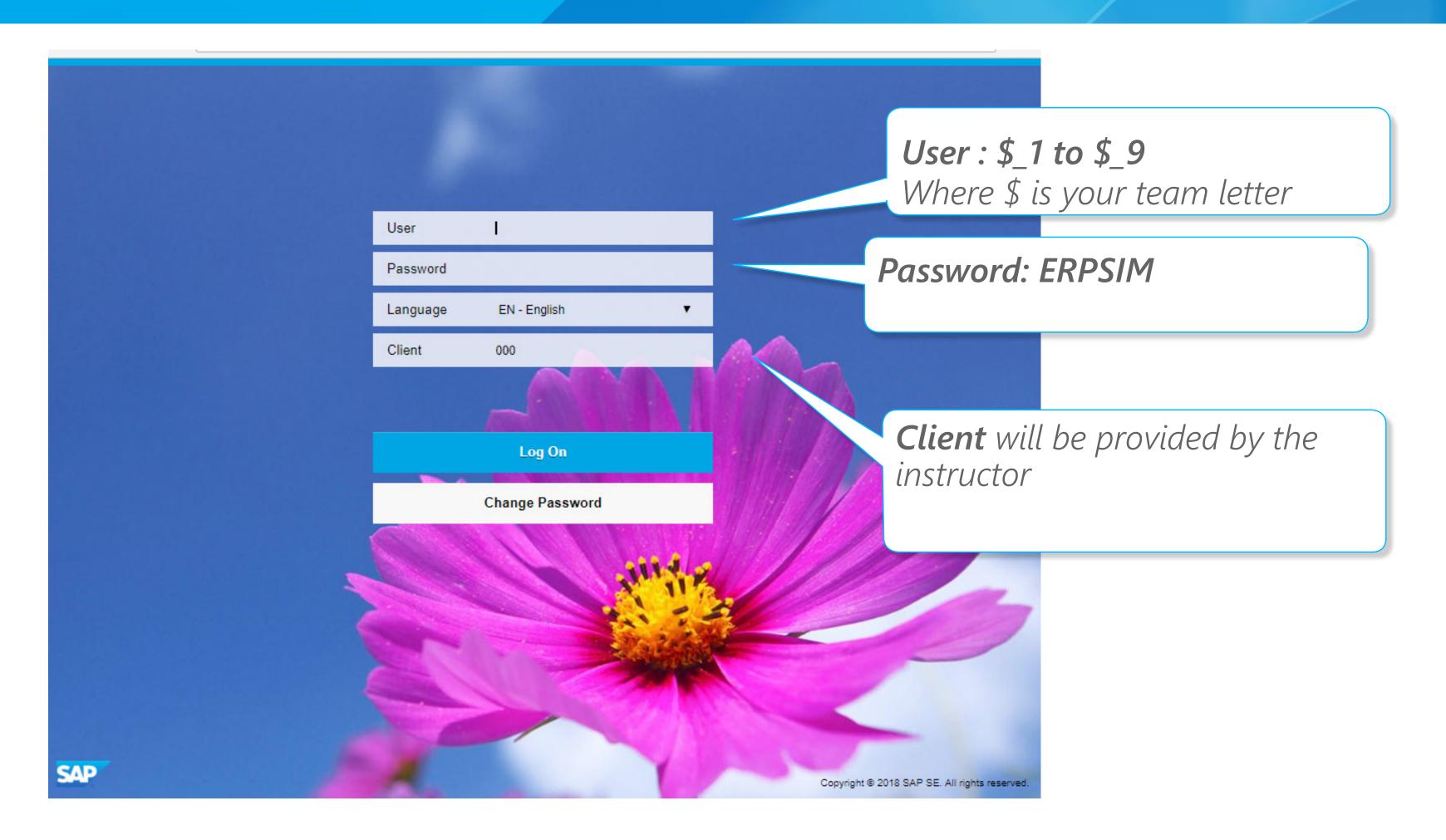
\$_5 **ERPSIM**

Integration in Round 3

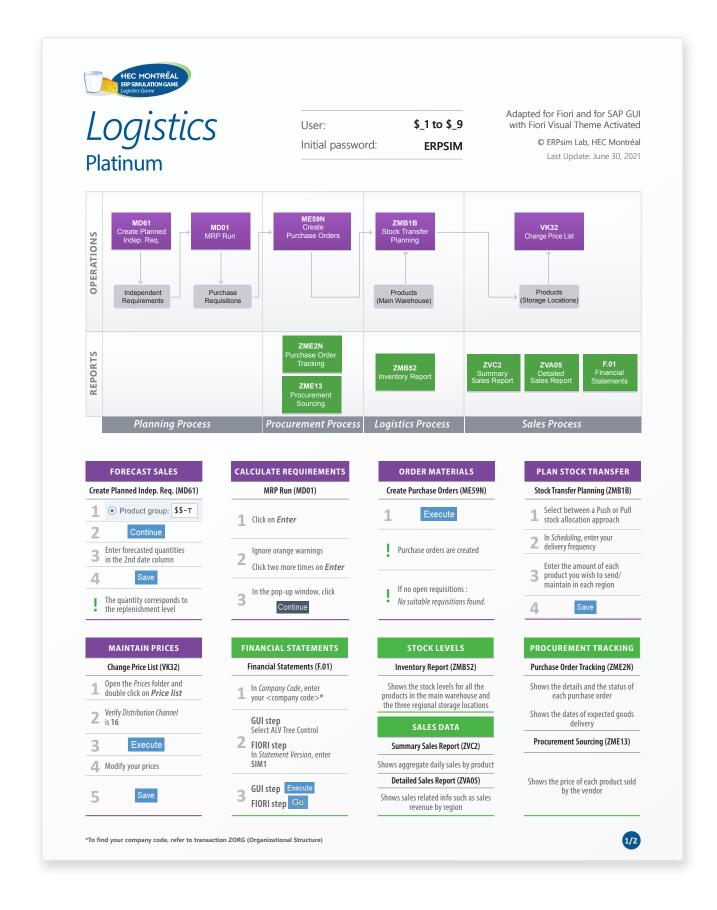




Login Information



Job Aid Distributed to Participants







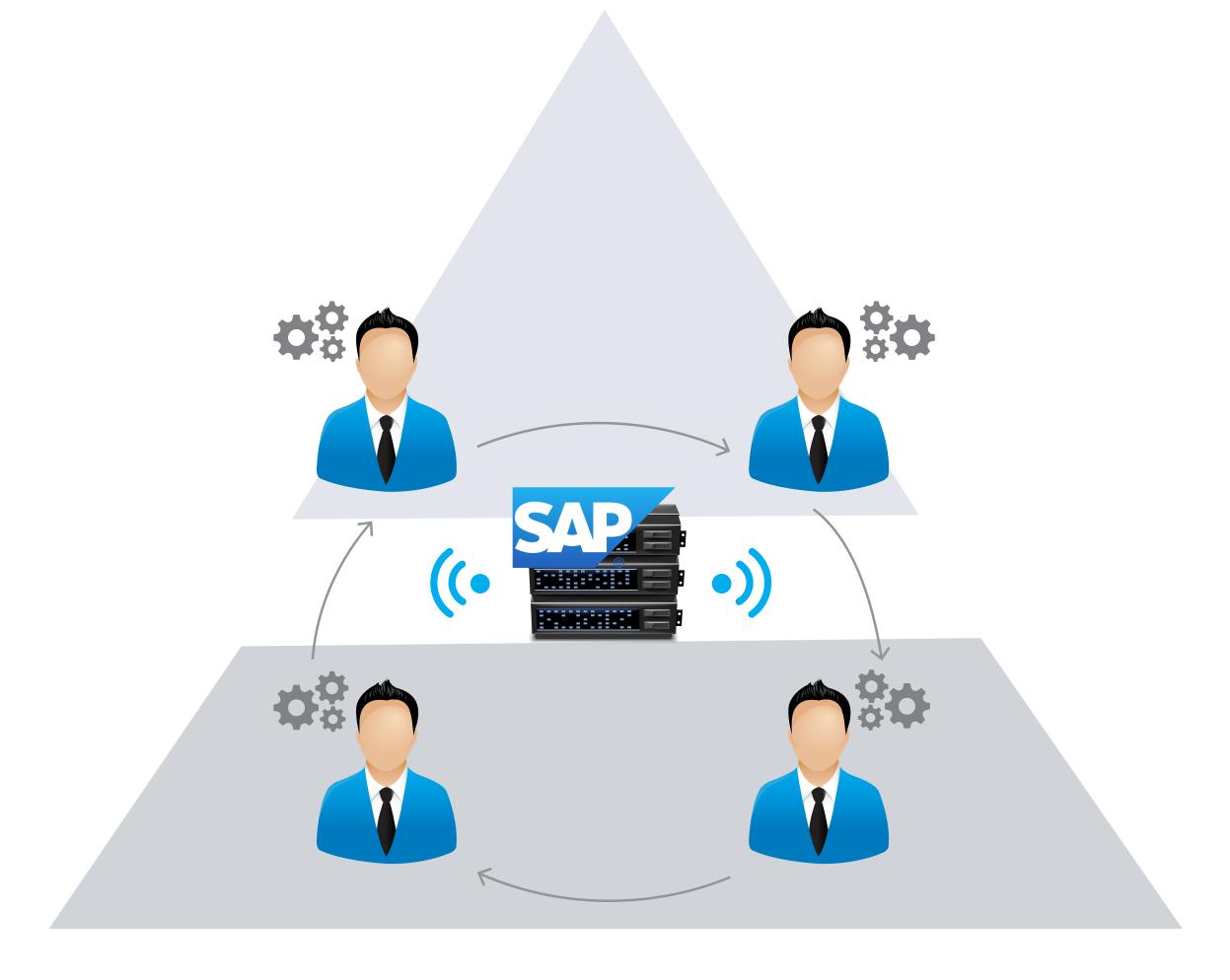
Let's play round 3: 10 virtual days

Debriefing Round 3

- What are your impressions of an ERP?
- Did your role and relevance within your team change from Round 2 to Round 3?
- 3 How were the decisions made?
- Have you used your email to exchange information? If so, what for, and how often?
- Based on your experience, what is an enterprise system?
- How can an enterprise system transform an organization?

3 Worlds of IT

Flatening effect



Andrew McAfee. (2006). Mastering the Three Worlds of Information Technology. Harvard Business Review, 84(11), 141-149.

Final Debriefing

- What are your impressions of an ERP?
- Did your role and relevance within your team change from Round 2 to Round 3?
- How were the decisions made?
- Based on your experience, what is an enterprise system?
- How can an enterprise system transform an organization?

Definition of an ERP

Enterprise systems are commercial **software packages** that enable the **integration of transaction-oriented data** and **business processes** throughout an **organization** (and perhaps eventually throughout an entire **interorganizational supply chain**).

Markus and Tanis (2000)

Why Should We Acquire an ERP?

For Information:

- Quality and Accuracy
- Simplicity (one entry)
- Consistency (database)
- Speed / Real Time
- Accessibility and Stability
- Links Between Documents
 (from purchase order to payment)
- Analysis Tools and Monitoring
 Business Performance

Additional Benefits:

- Process Standardization
- Support from the Publisher
- Easy Media Access
- Evolution of Products

 (new applications and new features)

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