

Joint workshop 1

In this workshop, production and product groups will work together to understand their different goals, and how these goals have some effects on each other. Additionally, the groups should also come up with some solutions/recommendations so that the objectives of the company can be accomplished.

Active participation is mandatory in this activity!

The learning objectives for this assignment are the following:

- *L04: Interpret, describe and evaluate Production and Product Service Systems*
- *L05: Demonstrate how existing production systems or products can be designed, developed and provided as Production or Product Service Systems*
- *L06: Differentiate, select and develop actions to improve production systems or products during the whole life-cycle.*

Organization

1. We will all start in the main session at 09.00. A short introduction of the workshop will be made. Here is the Zoom link: <https://chalmers.zoom.us/j/67452330362>
2. Students will be assigned to four different breakout rooms, as follows:

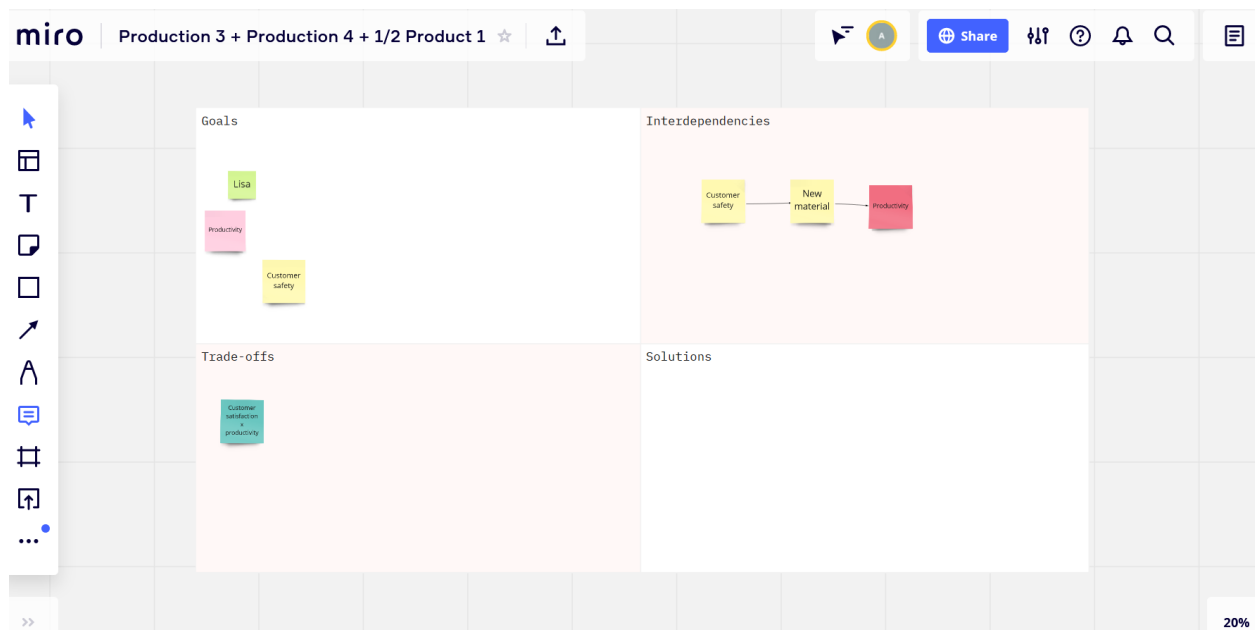
Room	Facilitator	Students
Breakout room 1	Adriana	Product 1 (Adam Andersson, Hanna Svensson), Production 1 (Koiar Ahmad, David Ek, Stefan Punkel, Tim Dierselhuis, Rami Dukhan) + Production 2 (Lejla Erdal, Gustaf Malmsjö, William Ripgård, Oskar Vertetics, Joel Nilsson)
Breakout room 2	Torbjörn	Product 1 (Tarakeshwar Amudala Purushothaman, Rubija Rekanovic, Nils Hildor), Production 3 (Sherzot Azimov, Colin Raoul, Prabin Dhakal, Fredrik Rapphed, Robin Ferm), Production 4 (Rahul Jagadeeswar, Jaggdish Ramalingam Pillai, Martyna Krajewski, Praveen Pacha)
Breakout room 3	Massimo	Product 2 (Ran An, Fredrik Byström) + Production 5 (Emelie Johansson, Lisa Möller, Zainab Nouri, Isabella Sten, Viktoria Wikmark), Production 6 (Tarek Al Shafie, John Sandström, Emir Bekric, Matilda Wollter Bergman, Mattias Forsberg)

Breakout room 4	Ola	Product 2 (Rafid Kadhim, Puranjay Mugur, Theodor Wingårdh), Production 7 (Carl Björstig, Carl-Johan Jäberg, Cornelia Nilsson, João Vasco Sabino Pinto, Nils Lundén)
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- For each breakout room, we create a board link in Miro. Make sure to access the right one for your session, once you entered the breakout room. You **DON'T** need to sign up for Miro. You can use it as a guest/visitor.

Room	Board link
Breakout room 1	https://miro.com/app/board/o9J_IWpFl34=/
Breakout room 2	https://miro.com/app/board/o9J_IVpU_XY=/
Breakout room 3	https://miro.com/app/board/o9J_IVpU_fg=/
Breakout room 4	https://miro.com/app/board/o9J_IVpQYgg=/

- Miro is a visual collaboration platform for teamwork. You can see in real-time what other members of the team are doing. If you want to try out Miro before the workshop, check miro.com. This should be your initial view (or similar):

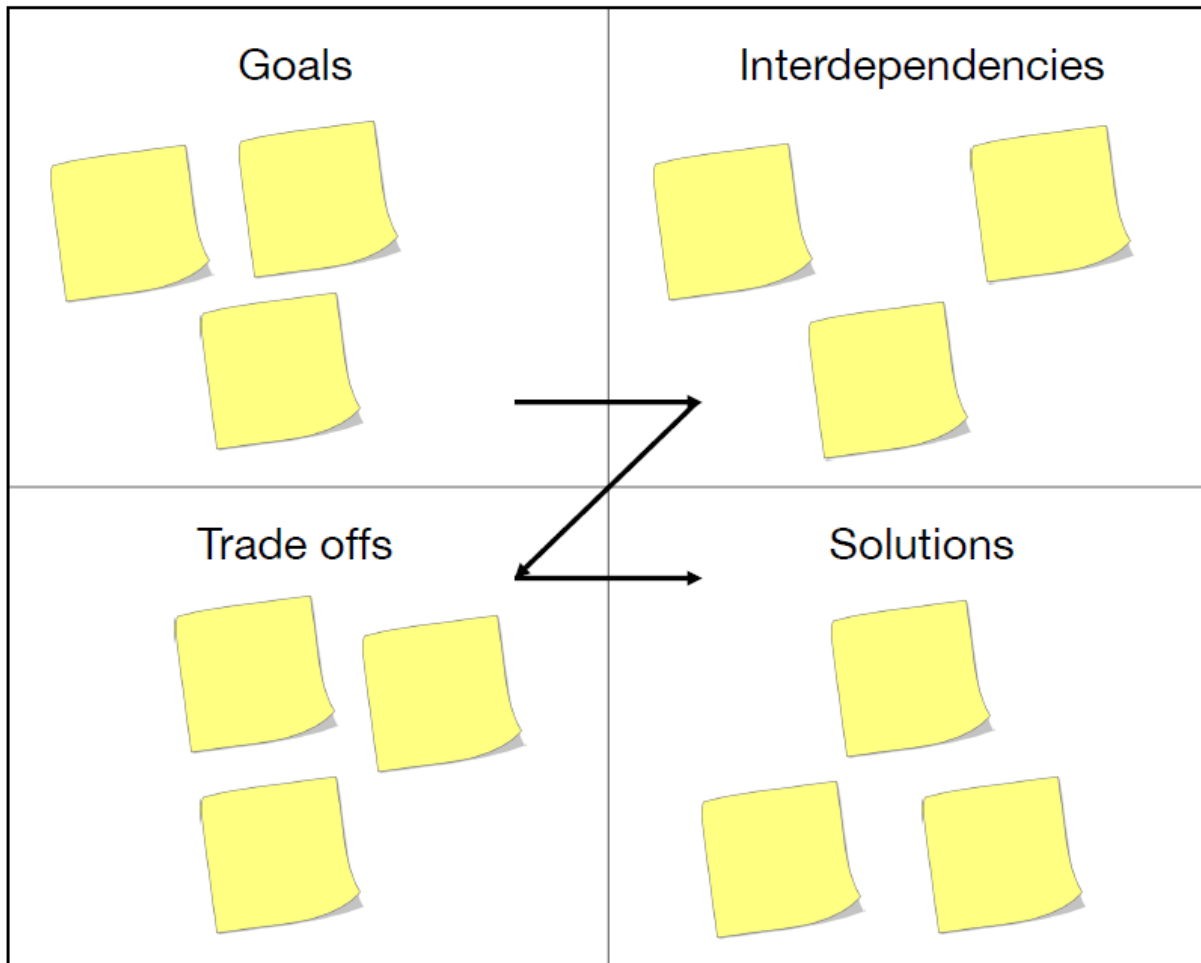


- What you have created in Miro is automatically saved. However, make sure to get a screenshot of your final board, so you can use it in your project.

Goals, interdependencies and trade-off analysis

The objective of the team (students in the same breakout room) is to create an “A3 sheet”, with the goals, interdependencies, trade-offs, and solutions. This should be presented to the CEO in the last part of the workshop. We will follow this schedule:

	Activity	Where
09.00 – 09.15	Workshop introduction	Main room
09.15-09.20	Break	Individual breakout rooms
09.20-09.40	Goals	
09.40-10.00	Interdependencies	
10.00-10.10	Break	
10.10-10.30	Trade-offs	
10.30-10.50	Solutions / recommendations	
10.50 – 11.00	Presentation to the CEO	



09.20 – 09.40 Goals

You will start the session by identifying the different goals of the production and product groups. What do production engineers and product engineers want to achieve with their activities? What are the company's objectives? Who are the stakeholders?

09.40 – 10.00 Interdependencies

Now that you have defined the different goals, you should analyze the interdependencies. For example, let's suppose that one goal is to produce a new type of bike so that a specific type of customer is reached. This will have some consequences in the production system – maybe the company will have to invest in new machinery, and the operators will have to be trained on how to use the new machinery, for example. This situation can even lead to productivity reduction in the production system. The connections between reaching a new type of customer, the need for new machines, training, and productivity reduction are examples of interdependencies.

10.10 – 10.30 Trade-offs

With the analysis of the interdependencies, the team can define the most critical trade-offs. Example: reaching new customers x reducing productivity in the production system.

10.30 – 10.50 Solutions

Considering the interdependencies and the trade-offs, now production and product engineers and work together and make joint decisions about solutions. Reflect on the limitations most companies struggle with within their daily operations and consider them to propose realistic solutions. Be creative!

10.50 – 11.00 CEO presentation

Your group has 10 minutes to convince the CEO that you have the best analysis and solutions! Do your best to make a good impression on your CEO!

Report

The report of this session is not mandatory. If your project group would like to get some feedback of your results, we encourage you to submit a report. Otherwise, you can use the collected information to answer the Task 5 in your project.

Obs: The most important feature in Miro during this session is the sticky note. The picture below shows where you can find them in the application.

