



Impact of Digitalization on Sustainability

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Optimize Energy Consumption to Reduce CO2 Emission



Digitalize Production Planning to Reduce Waste and Energy



Smart Product Design

Control of each single element – possible input for the optimizer

Target analysis

Feedback from the optimizer

Control options

Calculated result, minimum and maximum can be limited

Restrictions

The screenshot displays the PSI software interface with several key components:

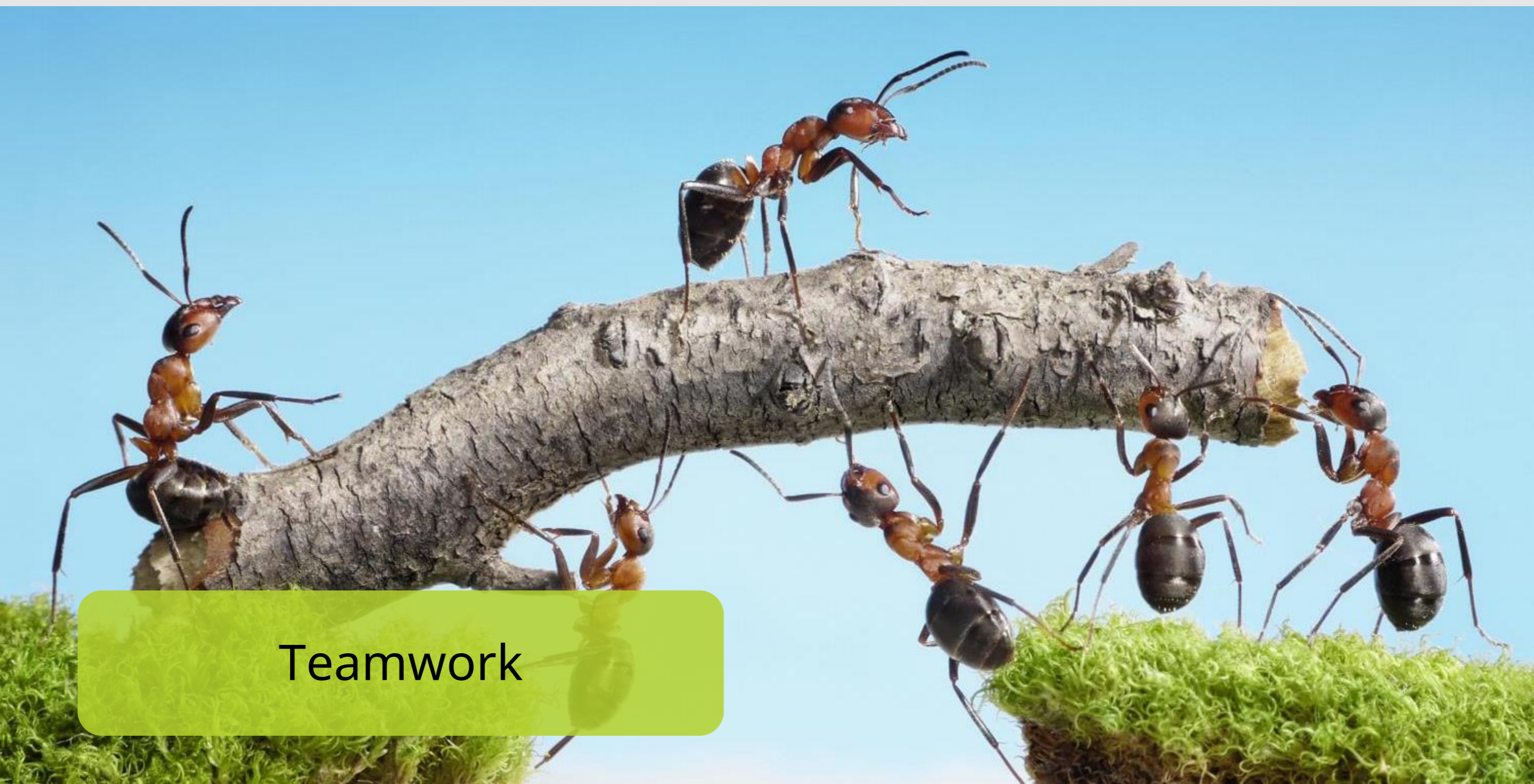
- Top Panel:** Shows application settings like 'Factory LF1', 'Heat No. H00004', and 'Alloy L80-9CR'. It includes a table for 'Analysis' with columns for elements like C, Si, Mn, P, S, Cr, Ni, Cu, Sn, Al, V, Nb, Ti, B, Ph, Te, Bi, Se, Ca, Co.
- Target Analysis Table:** A table with columns for elements and rows for 'Exact', 'Burn-Off', 'Min Order', 'Max Order', 'PS Min', 'PS Max', and 'PS Am'. The 'Act' row shows actual values, and the 'Calculated' row shows the optimizer's results.
- Control Options Panel:** A sidebar on the left with checkboxes for 'Optim Off', 'Facility Efficiency', 'Element Efficiency', 'Material Efficiency', 'Constraints', 'Order Min/Max', 'Dilute over alloyed', 'Consider undesired', 'Without Stock', 'Price Off', and 'Min analysis reliability'. It also shows 'Weight' (48000), 'Weight Min' (48000), 'Weight Max' (56100), and 'Facility spec. loss[%]' (0).
- Material Additions Table:** A table with columns 'LocMatNr', 'Shortname', 'Amount Min', 'Amount Max', 'Amount Gross', and 'Amount'. It lists materials like Mn50#0, FeCr80#0, and Mo90#0.
- Restrictions Table:** A table with columns 'Formula No', 'Linear', 'Formula', 'Result', and 'Check'. It shows formulas like 'C-SMax' and 'C-SMin' with their respective results and checkmarks.
- Result Panel:** A section on the right showing 'Error', 'Warning', and 'Comment' fields, along with summary statistics like 'Weight gross', 'Weight net', 'Weight tapping', and 'Price'.



Automatic Defect Prediction



Yard Management



Teamwork



PSImetals Service Platform

Let's Connect!

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Strong References

Suddenly everything's that simple.

PSI



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