

SUMMARY OF FORMULATION LOGIC FOR AATRIZINVENTOR SOLUTION

Work Paper

If you applied summary or abbreviated descriptions, have them available to review this logic.

Objective of the Innovation Challenge

IMPROVE BUILDING THE BEST CAR IN THE WORLD WITHOUT DESIGN COMPROMISES
AFFECTED BY PRODUCTION DIFFICULTIES

Evaluated Object S1

CAR MANUFACTURING SYSTEM - Type: Moving

Object S2 interacting with S1

NEW CAR MODEL - Type: Moving

Physical Variable or Characteristic

Design commitments

the undesirable

With Less Design commitments there is undesirable effects, then there is More difficulty to :

IMPROVE BUILDING THE BEST CAR IN THE WORLD WITHOUT DESIGN COMPROMISES
AFFECTED BY PRODUCTION DIFFICULTIES

the desirable

With More Design commitments there is desirable effect, then there is More ease to :

IMPROVE BUILDING THE BEST CAR IN THE WORLD WITHOUT DESIGN COMPROMISES
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TRIZ Innovation Parameters Evaluated

TRIZ Innovation Parameters	Undesirable Effect (UDE)/ Desirable Effect (DE)	Evaluate
1. Heaviness of moving object	<p>CAR MANUFACTURING SYSTEM : There is More difficulty to IMPROVE BUILDING THE BEST CAR IN THE WORLD WITHOUT DESIGN COMPROMISES AFFECTED BY PRODUCTION DIFFICULTIES because there is More Labor costs for manufacturing</p> <p>Effect : undesirable</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No
12. Shape / composition / configuration	<p>CAR MANUFACTURING SYSTEM : There is More difficulty to IMPROVE BUILDING THE BEST CAR IN THE WORLD WITHOUT DESIGN COMPROMISES AFFECTED BY PRODUCTION DIFFICULTIES because there is Less Appropriate form of manufacturing</p> <p>Effect : undesirable</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No
25. Loss of Time	<p>CAR MANUFACTURING SYSTEM : There is More difficulty to IMPROVE BUILDING THE BEST CAR IN THE WORLD WITHOUT DESIGN COMPROMISES AFFECTED BY PRODUCTION DIFFICULTIES because there is More Loss of time due to manufacturing control actions</p> <p>Effect : undesirable</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No
26. Quantity of substance / Capacity gains	<p>CAR MANUFACTURING SYSTEM : There is More difficulty to IMPROVE BUILDING THE BEST CAR IN THE WORLD WITHOUT DESIGN COMPROMISES AFFECTED BY PRODUCTION DIFFICULTIES because there is Less Number of units manufactured</p> <p>Effect : undesirable</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No
29. Fulfillment of desired outcome	<p>CAR MANUFACTURING SYSTEM : There is More difficulty to IMPROVE BUILDING THE BEST CAR IN THE WORLD WITHOUT DESIGN COMPROMISES AFFECTED BY PRODUCTION DIFFICULTIES because there is Less Compliance with production goal</p> <p>Effect : undesirable</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No

TRIZ Innovation Parameters	Undesirable Effect (UDE)/ Desirable Effect (DE)	Evaluate
35. Adaptability or versatility	<p>CAR MANUFACTURING SYSTEM : There is More difficulty to IMPROVE BUILDING THE BEST CAR IN THE WORLD WITHOUT DESIGN COMPROMISES AFFECTED BY PRODUCTION DIFFICULTIES because there is Less Adaptability to variability of manufacturing errors</p> <p>Effect : undesirable</p>	<input data-bbox="1360 216 1474 304" type="checkbox"/> Yes <input data-bbox="1360 304 1474 392" type="checkbox"/> No
36. Complexity of Device/ Action	<p>CAR MANUFACTURING SYSTEM : There is More difficulty to IMPROVE BUILDING THE BEST CAR IN THE WORLD WITHOUT DESIGN COMPROMISES AFFECTED BY PRODUCTION DIFFICULTIES because there is More Manufacturing complexity</p> <p>Effect : undesirable</p>	<input data-bbox="1360 590 1474 678" type="checkbox"/> Yes <input data-bbox="1360 678 1474 766" type="checkbox"/> No
33. Ease of operation	<p>CAR MANUFACTURING SYSTEM : There is More ease to IMPROVE BUILDING THE BEST CAR IN THE WORLD WITHOUT DESIGN COMPROMISES AFFECTED BY PRODUCTION DIFFICULTIES because there is More Ease of operation in car manufacturing without design compromises</p> <p>Effect : desirable</p>	<input data-bbox="1360 919 1474 1008" type="checkbox"/> Yes <input data-bbox="1360 1008 1474 1096" type="checkbox"/> No