

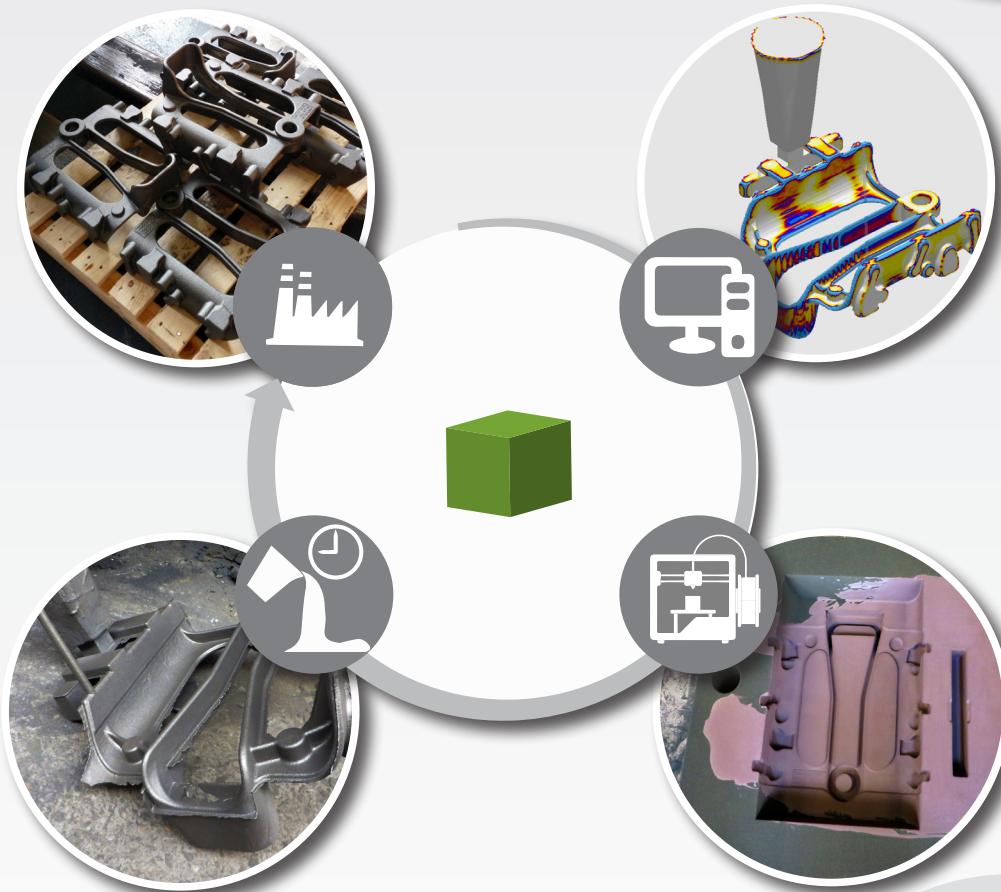
# Movable bracket of a forage harvester

## Redesign of a welded construction into a ductile iron sand-casting

### Point of departure

*This project was commenced for a client in the agricultural industry. The old construction had many problems with fatigue failure and deformation due to welding.*

*The goal was twofold; first the welded part needed to be converted to a cost-efficient casting, while increasing the performance. Secondly the part needed to be delivered with a next to impossible deadline: 10 weeks.*



54%

### Weight reduction

From 18 kg in steel to 8.2 kg in ductile iron



40%

### Cost reduction

Reducing machining costs and the amount of material



100%

### Fit into requirements

The problems were eliminated during the engineering of a new, optimised sand casting. The product was built into the machine within the deadline of 10 weeks



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