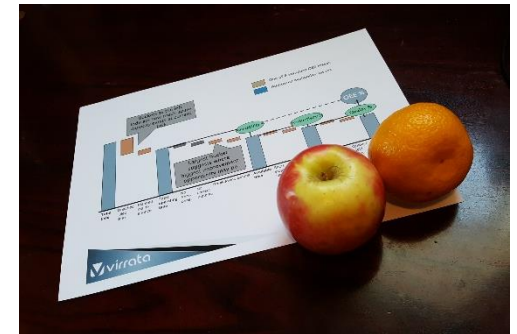




OEE – Apples and Oranges



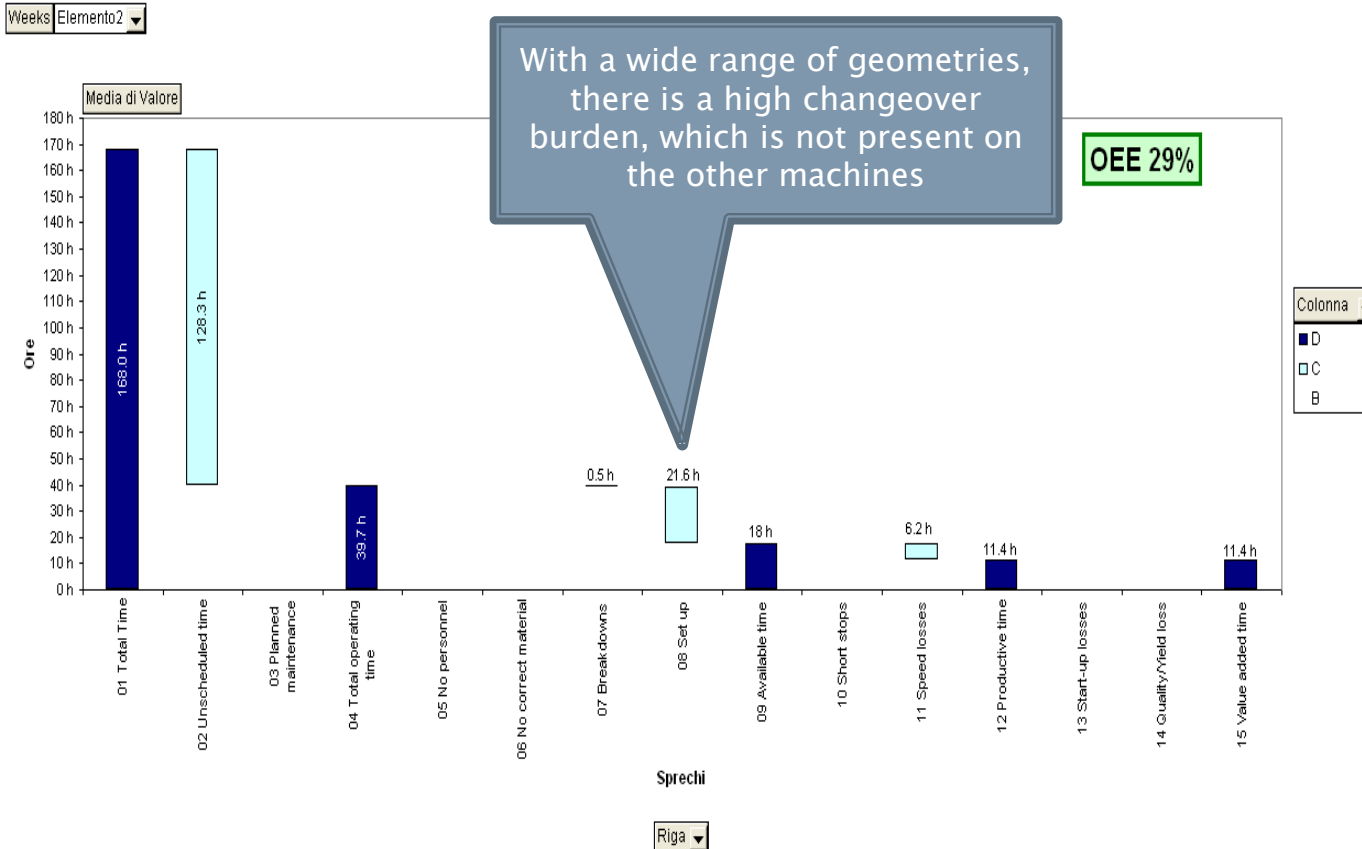
Case Study:

Bending machines –Italy

Three similar machines, Three different results

- ▶ Machine one – produces all geometries and materials
- ▶ OEE 29%
- ▶ Machine two – produces two radii and several materials
- ▶ OEE 39%
- ▶ Machine three – produces one radius only
- ▶ OEE 50%

Machine One

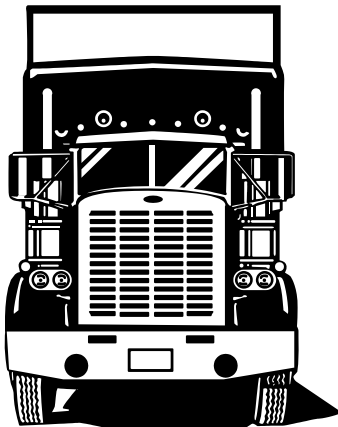


- It is clear that reducing changeover time can significantly improve OEE
- Even with rapid changeovers, the burden will always be greater than the machine producing only one variant

OEE Example. Two identical machines – Two very different results

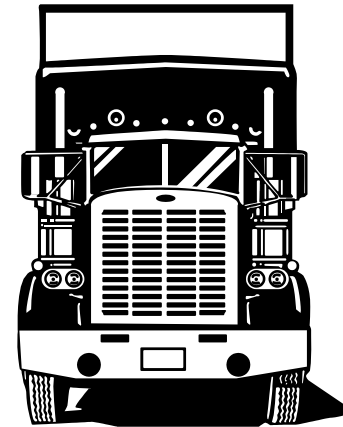
Truck 1

- ▶ Delivering ambient products from factory to distribution centres
- ▶ Motorway driving



Truck 2

- ▶ Delivering frozen food to retail outlets
- ▶ Urban driving



This theoretical example makes it easy to understand why comparing OEE may be misleading. Whilst it demonstrates the principles, there are many better ways to measure truck performance

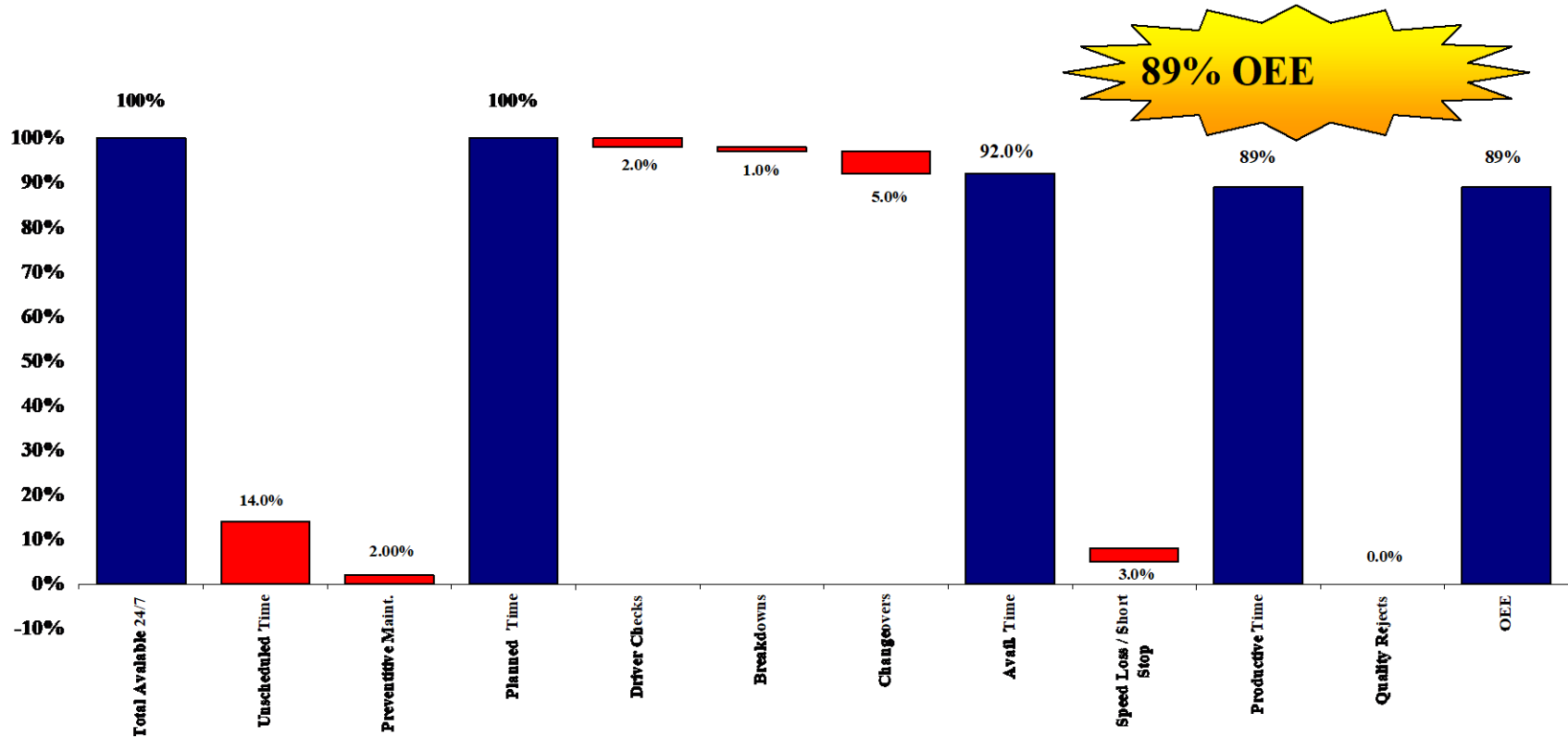
Truck One – Losses

Scheduled time	24/6
Minor stops	Motorway junction
Speed losses	Acceleration and deceleration joining the motorway
Start up losses	Driver vehicle checks
Quality losses	None
Breakdowns	Minimal
Changeovers	Load and unload four times per day

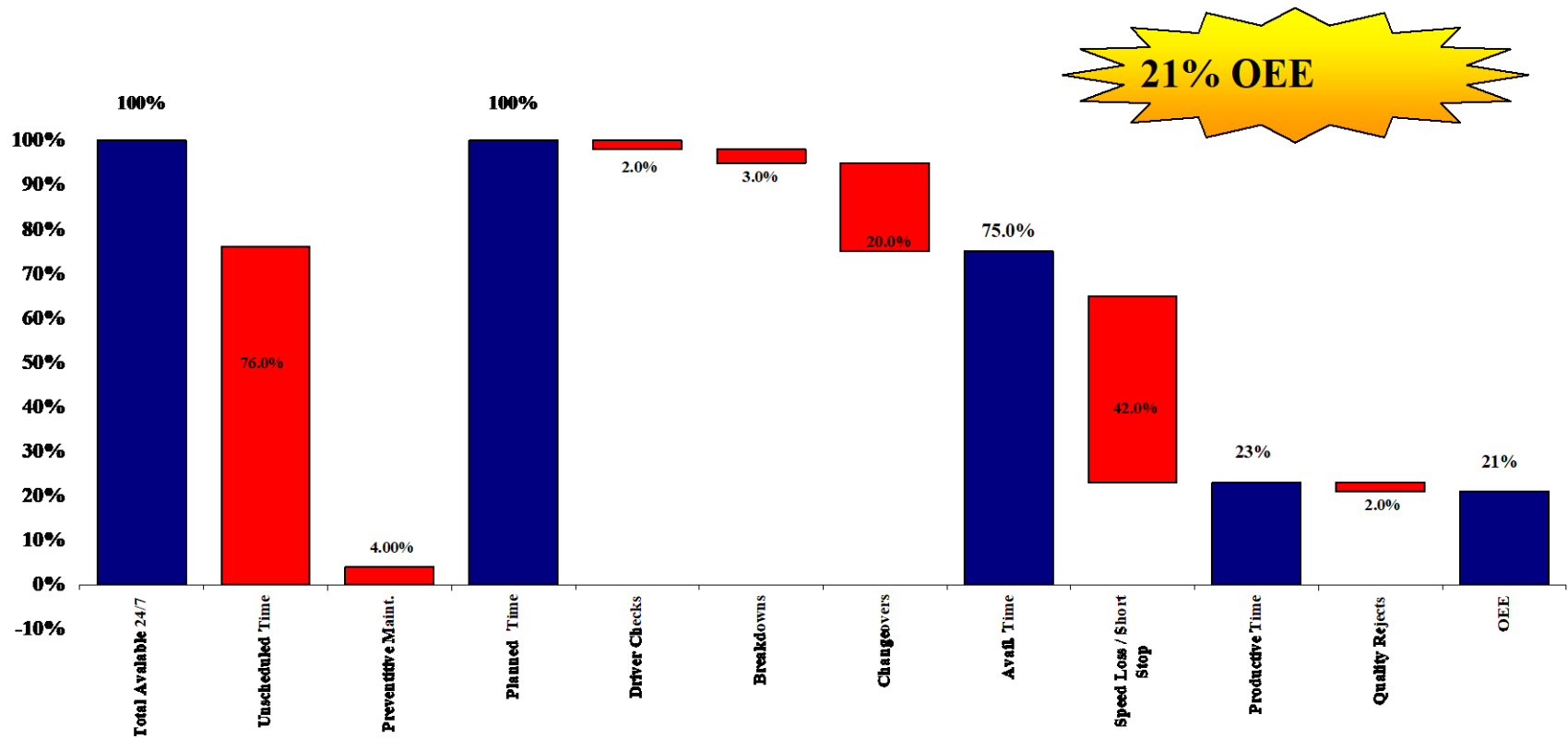
Truck Two – Losses

Scheduled time	8/5
Minor stops	Every road junction
Speed losses	Urban speed limit 50km/h
Start up losses	Driver vehicle checks
Quality losses	Defrosted food, back doors left open
Breakdowns	Greater wear and tear
Changeovers	Load and unload 12 times per day

Truck One



Truck Two



Conclusions

- ▶ Very different results can be found with similar machines
- ▶ It is not usually appropriate to draw direct comparisons between different machines
- ▶ Each set of circumstances needs to be considered individually
- ▶ Action plans need to be tailored to each case
- ▶ A positive trend is more important than the OEE figure

Interested in improving your operations?
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