Lean and Green: Profiting from Reductions in Food Waste

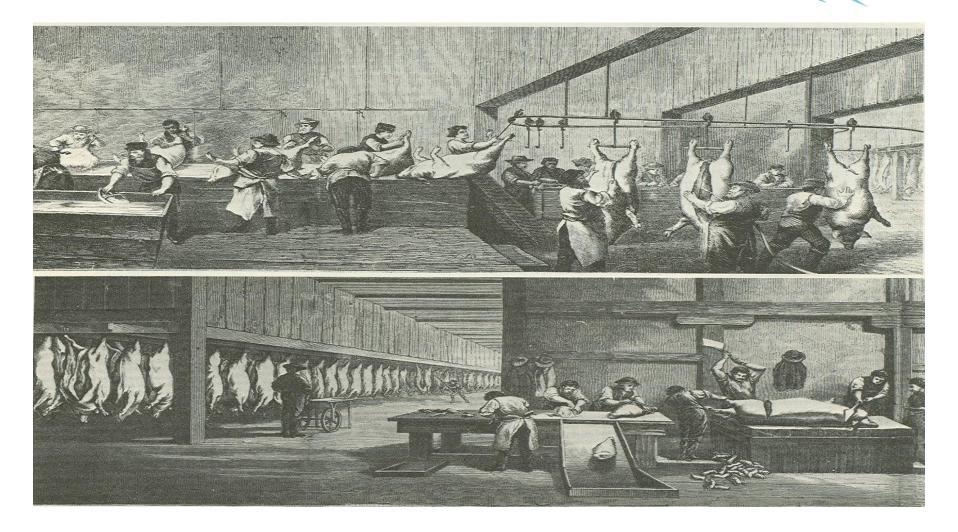
Keivan Zokaei

Visiting Professor, University of Buckingham



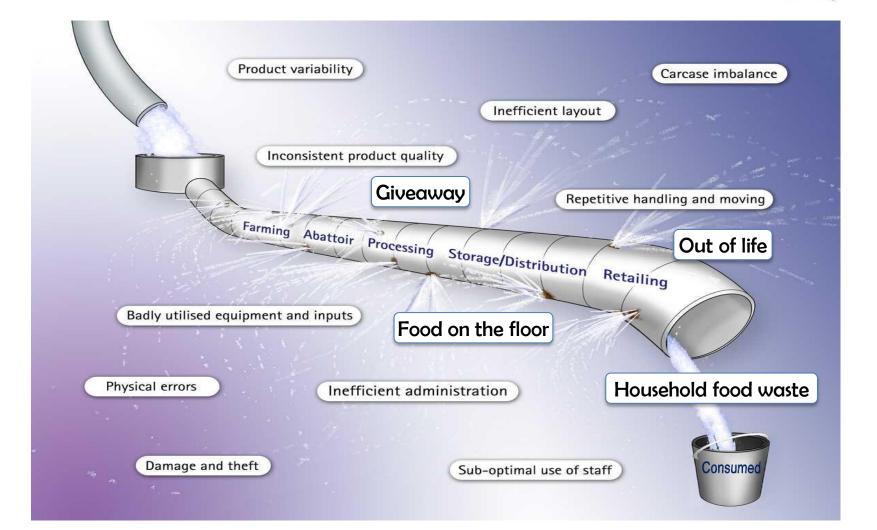
Together, the power to improve

Henry Ford's inspiration

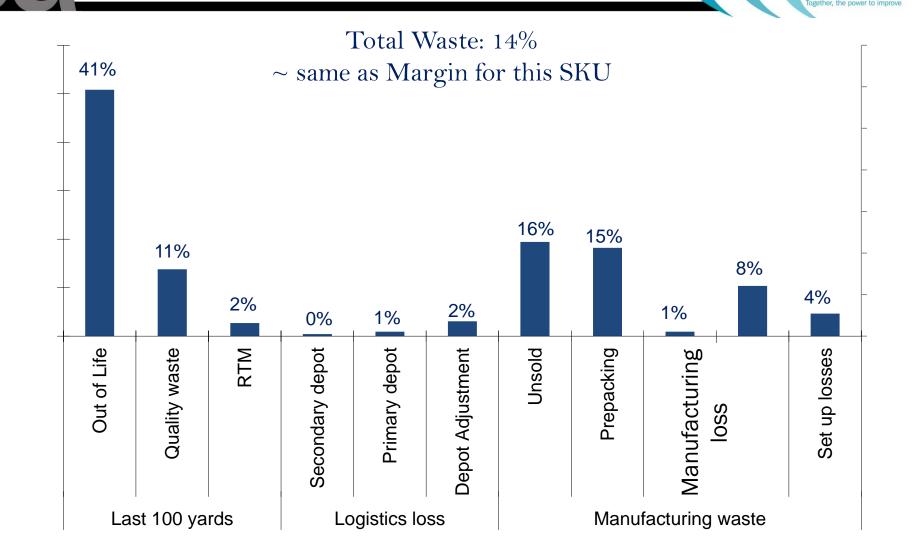


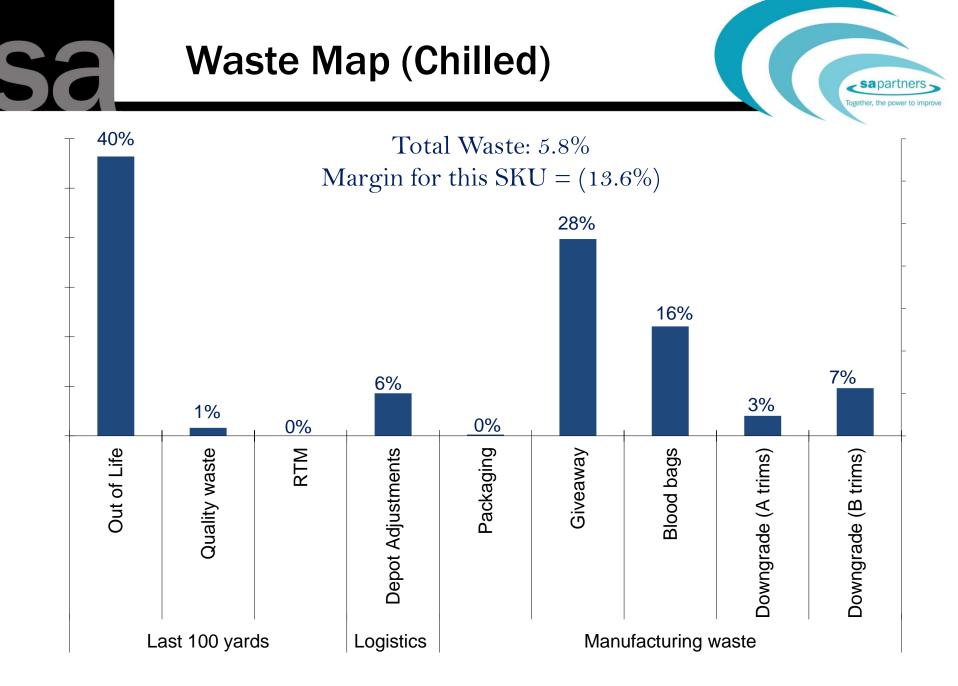
Hounshell (1985)

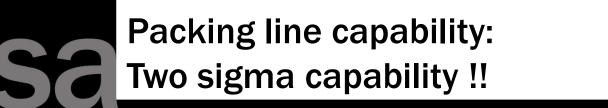
The Food Industry is NOT Lean

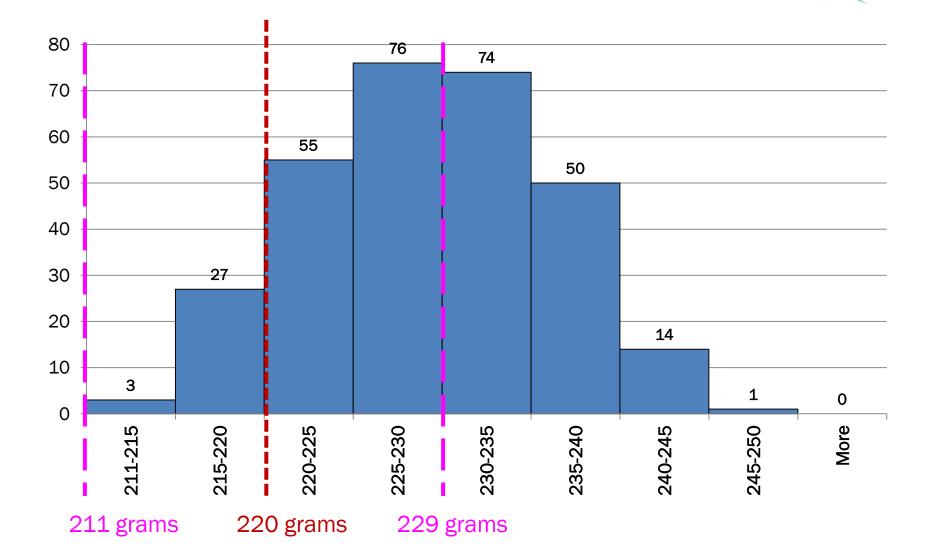


Waste map (Horticultures)









F&D vs. Manufacturing - sapartners Automotive:15 12 Manufacturing ■ Food and drinks Toyota: 35 **Dell: 80** 10 8 6 4 2 0 ¹⁹99 ²⁰00 ²⁰05 ²⁰05 ²⁰05 ²⁰05 ²⁰05 2010 7995 79₉₆ 799> 7998 <00> 2008 2009

Source ABI (2012) and SMMT (2008)

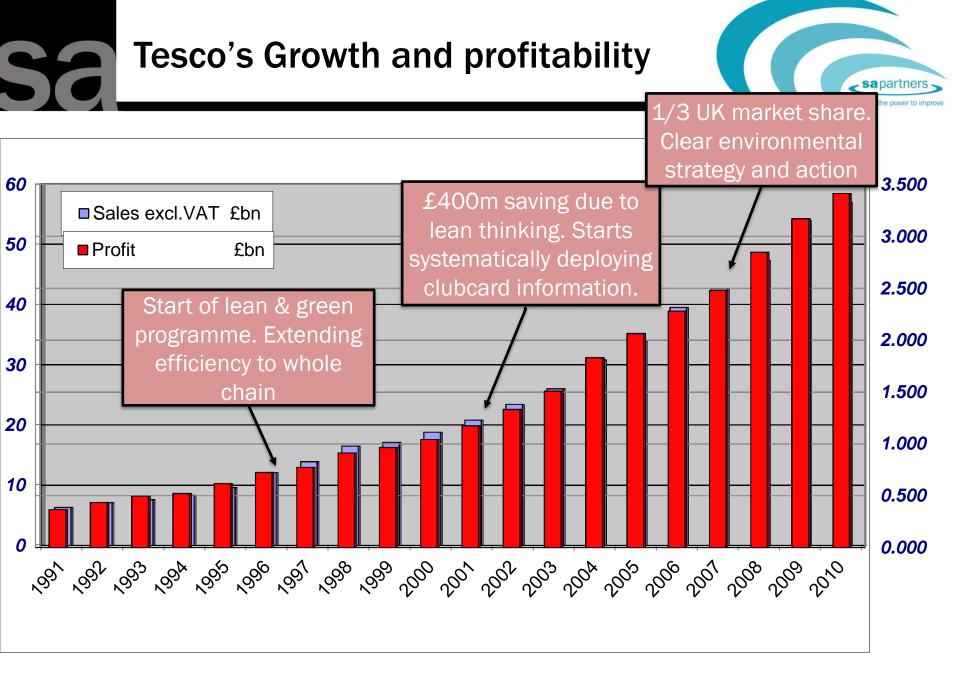
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Tesco: Clear Lean & Green Strategy

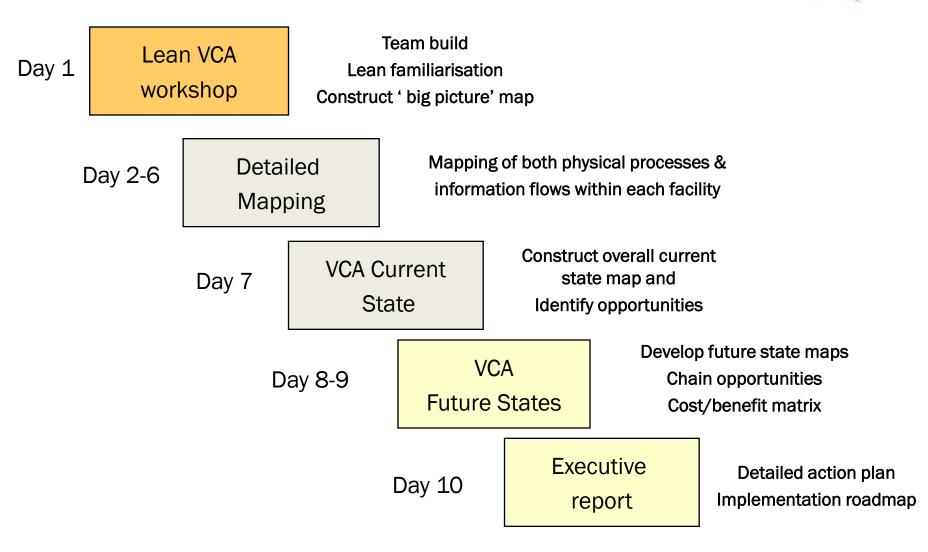


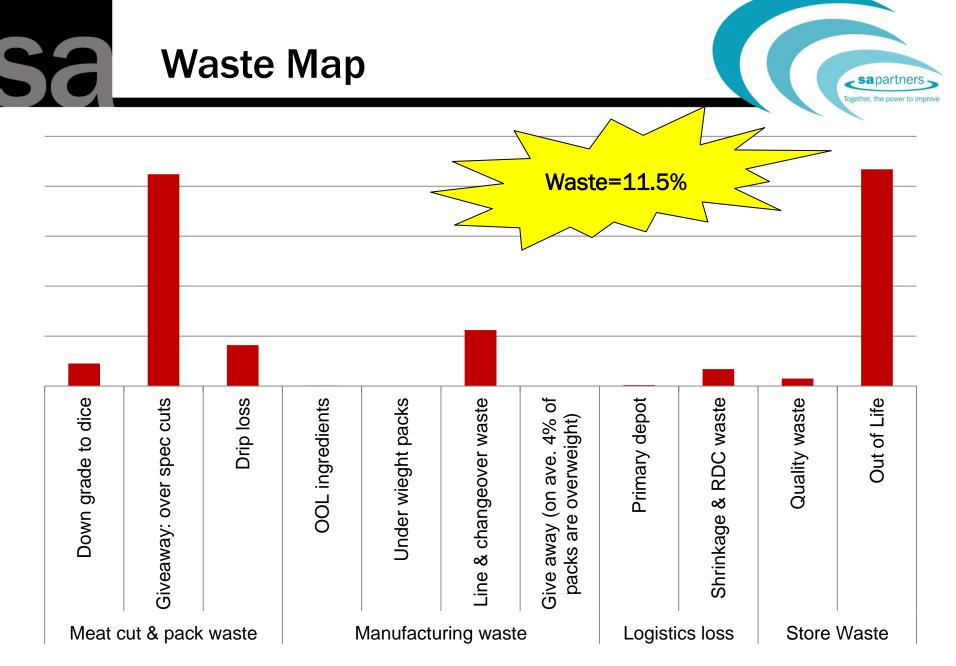
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power to improv





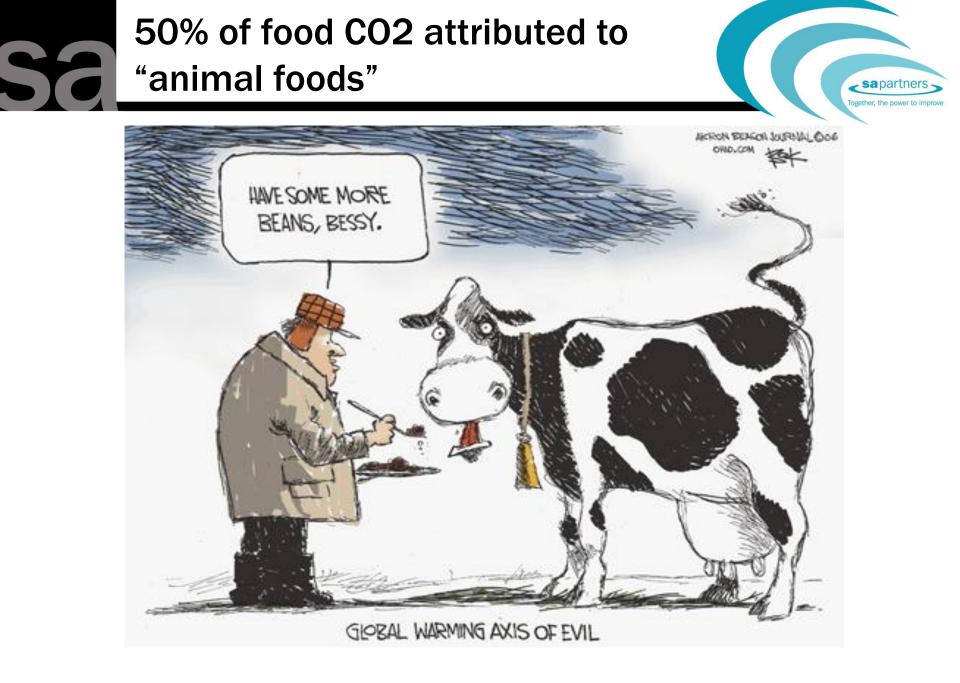




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- 1. Review and align product spec. with customer needs
- 2. Minimise product waste and enhance shelf-life and On Shelf Availability
- 3. Reduce inventory, reduce chain lead-time and no. touches
- 4. Demand amplification and demand distortion





- Fresher products
- Higher availability
- Lower prices
- More consistent product
- Less environmental impact

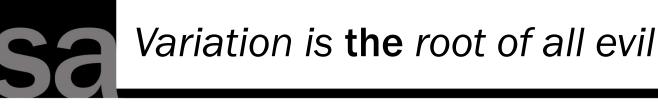


Potential benefits to share with the whole chain



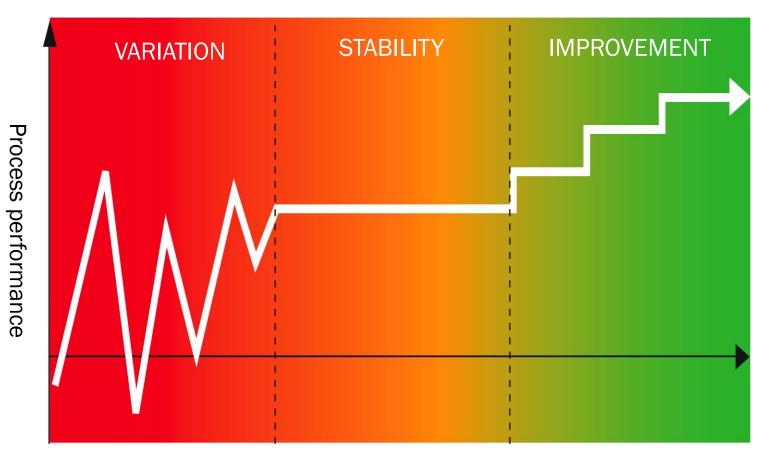
Benefit	%	Improve
Food waste	50%	1000 T
CO ₂		15,000 T
Water		20 osp
Lower costs	8%	£xxxm
Sales uplift	4%	£yyym
Productivity increase	7%	
Inventory reduction	25%	







You need stability before you can pinpoint areas to improve



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In-house Lean and Green Interventions



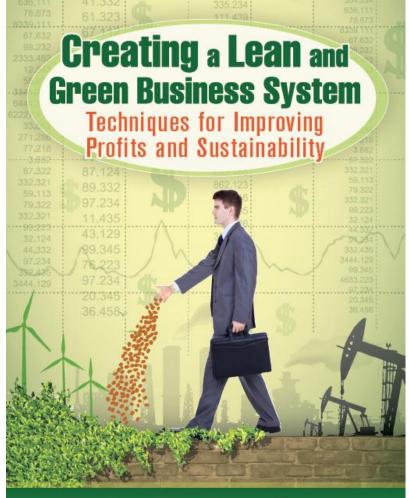
Hotspots analysis

Legend: Green - OK Yellow - Marginal Red - issue

Green Big Picture Map with A3's



Create a Lean and Green Buiness



Keivan Zokaei • Hunter Lovins Andy Wood • Peter Hines



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