



Outline

- 1. Equilibrium model
- 2. Factor 1 Market
- 3. Factor 2 Equipment
- 4. Factor 3 Product ageing
- 5. Factor 4 Regulations
- 6. So is it worth it?



An Equilibrium Displacement Model for DA

A New Sheep Meat EDM Mounter et al.

Figure 1. Structure of the Australian sheep meat equilibrium displacement model $X_3(W_3)$ X₉(W₉) Lamb Lamb Processing Export Inputs Marketing Inputs $X_{13}(W_{13})$ Lamb Export Export Marketing $X_5(W_5)$ Lamb $X_1(W_1)$ Lamb X7(W7) Farm Supply Slaughtering of Lamb Lamb X₁₅(W₁₅) and Domestic Domestic X11(W11) Lamb Lamb Processing Marketing Domestic Marketing Inputs X₁₆(W₁₆) X₁₂(W₁₂) Mutton Mutton Domestic Domestic Domestic Mutton $X_2(W_2)$ Mutton Marketing Inputs Marketing Farm Slaughtering Supply of and Mutton X8(W8) X₁₄(W₁₄) Processing Mutton Export Export $X_6(W_6)$ Mutton Marketing $X_{17}(W_{17})$ $X_4(W_4)$ X₁₀(W₁₀) Mutton Farm Mutton Export Marketing Supply of Processing Inputs Live Sheep Inputs X₁₈(W₁₈) Live Sheep Live Sheep X19(W19) Export Marketing Live Sheep Inputs Exports Marketing

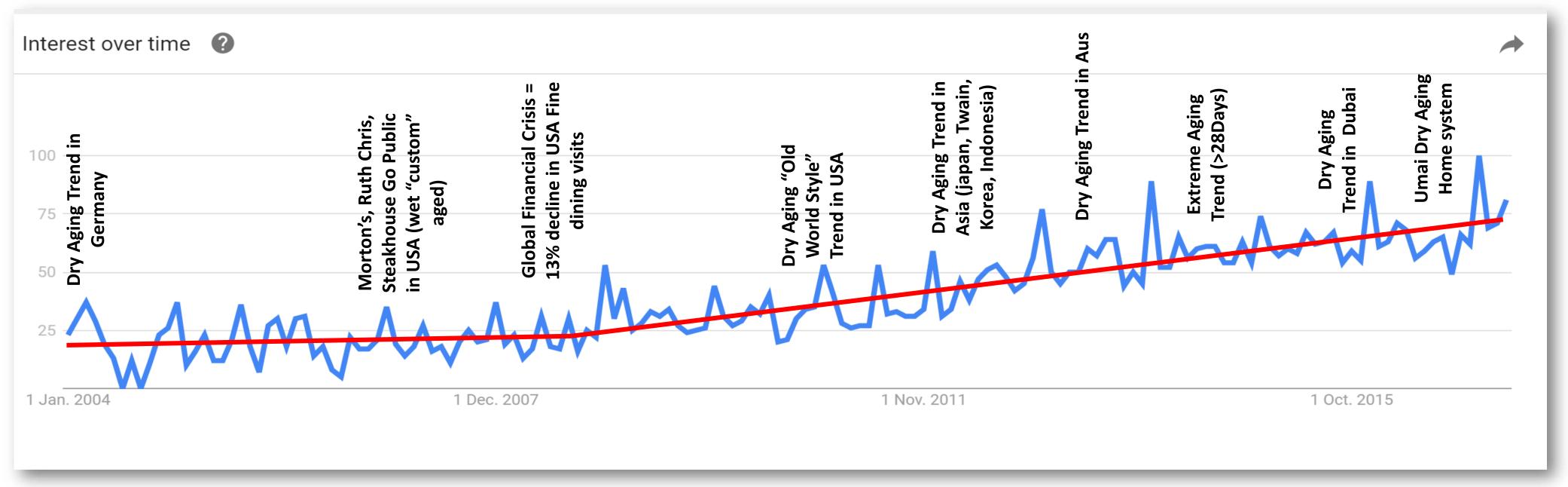
An economist view on benefits of DA product

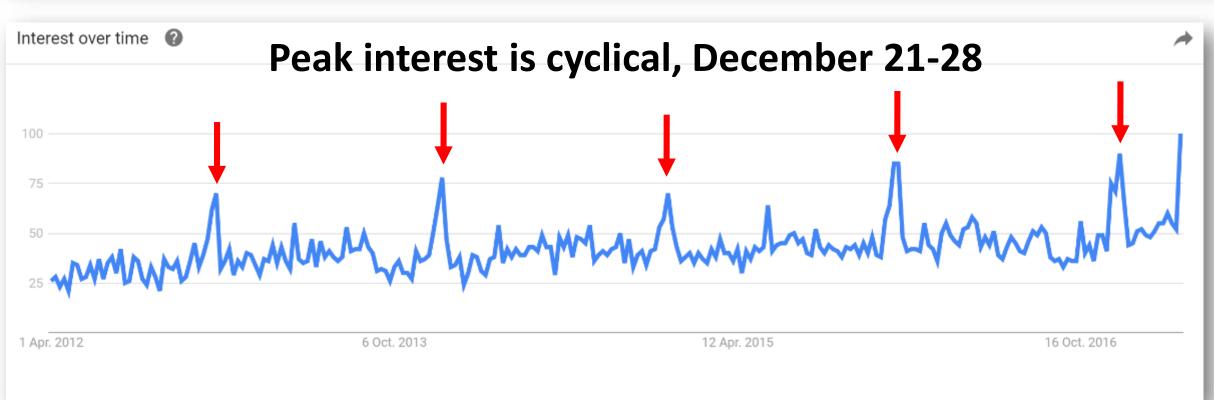




Factor 1 – Market and consistency

Increasing interest in Dry Aged product since 2004





The market will be the determining factor on the product success



Factor 2 – Equipment



>\$300,000/setup







Factor 2 – Equipment

Dry ager



Maturemeat



Dry Aging Bag





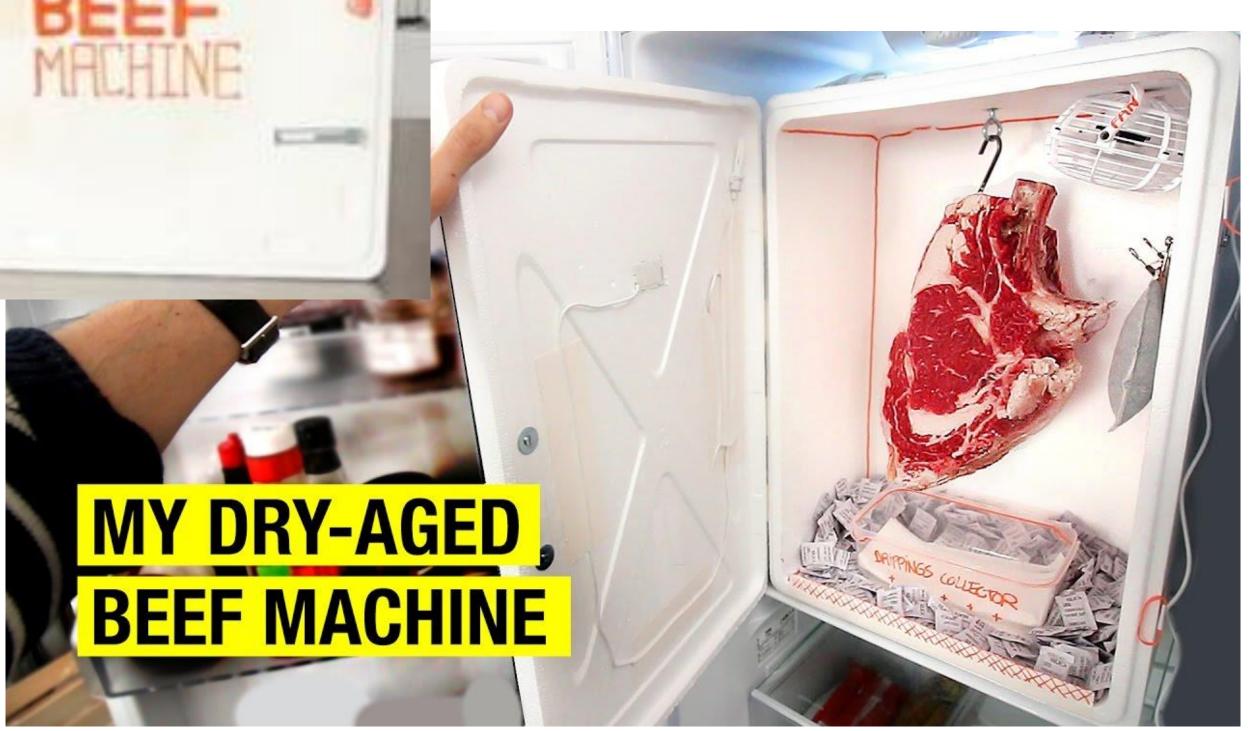


Factor 2 – Equipment



<\$50/set up

Its cheap, But don't do it!!!









Factor 3. Product Ageing – Raw material

Fat

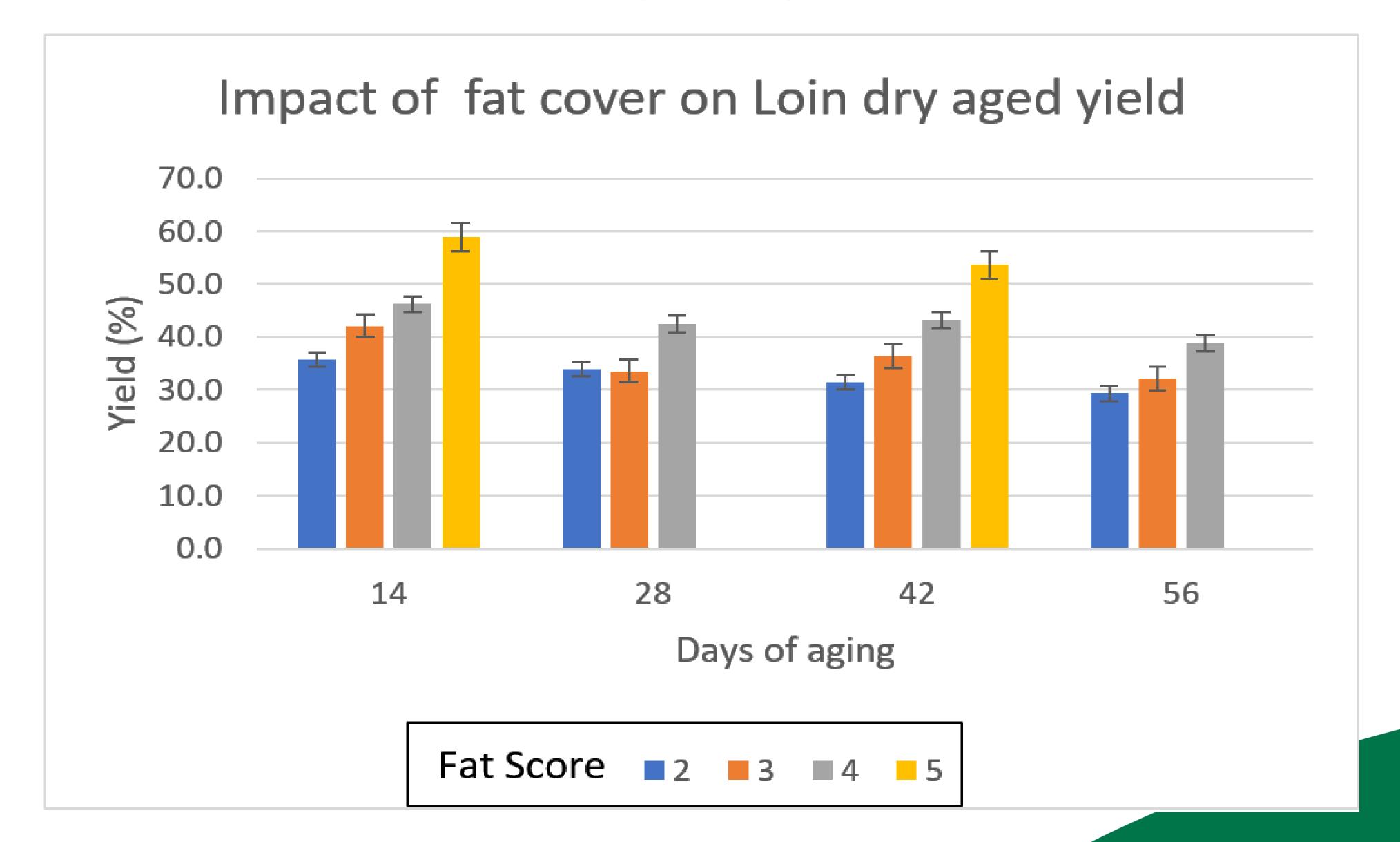


VS Not much



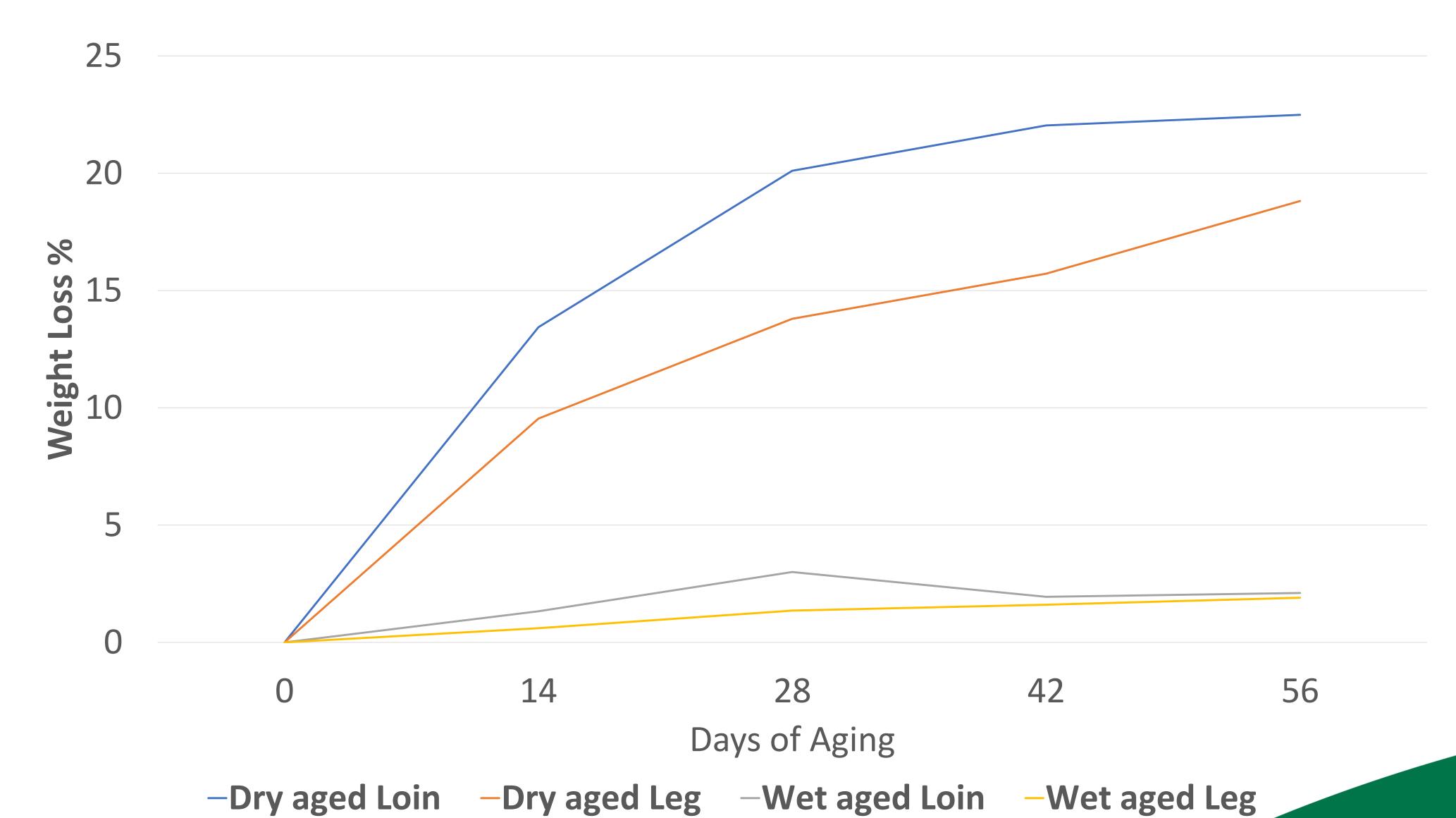


Factor 3. Product Ageing – Yield





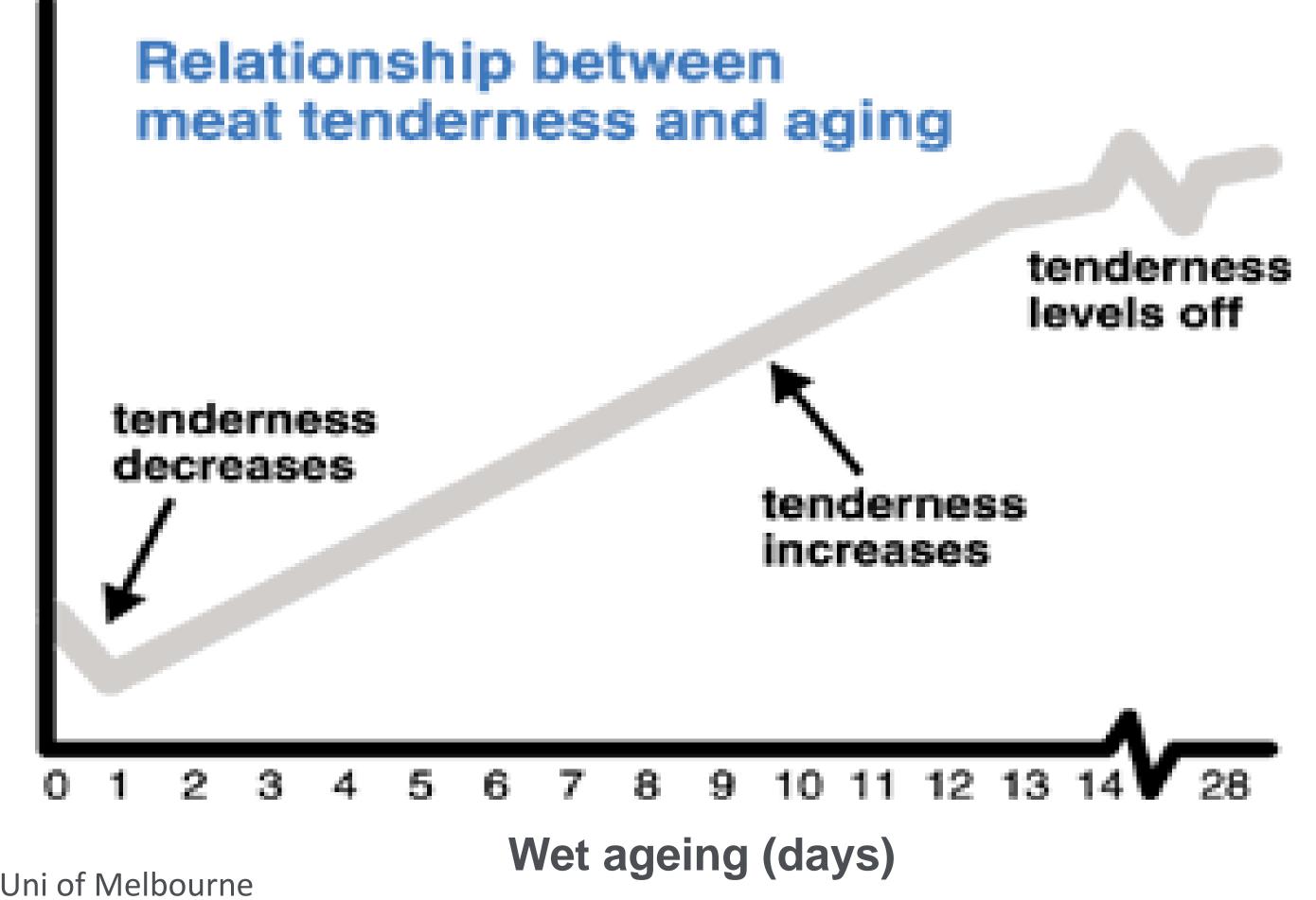
Factor 3. Product Ageing – Yield

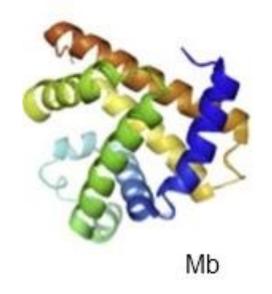




Factor 3. Product Ageing - tenderness

After 14 days ageing, small incremental increase in tenderness





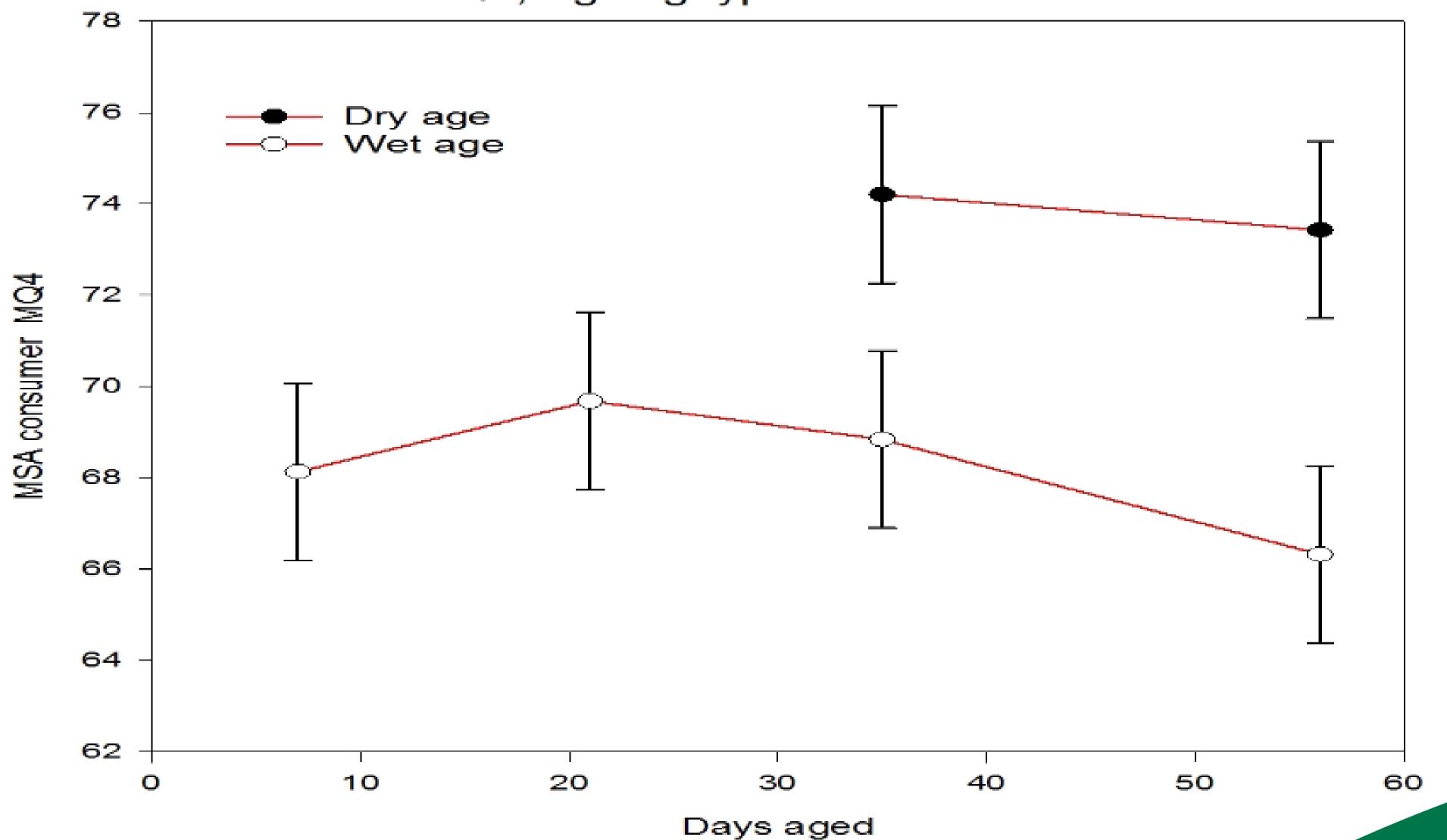
Pleasant 'taste and aroma' compounds



A

Factor 3. Product Ageing – Liking

MQ4; Ageing type P<0.001







Factor 4. Regulation

1. Further Meat Processing Facility fees and charges

Annual Throughput	Application Fee (\$)	Annual Fee (\$)
Up to 250 tonnes	341	682
251 to 500 tonnes	394	788
501 to 2,500 tonnes	791	1,582
2,501 to 5,000 tonnes	1,188	2,376
Over 5,000 tonnes	1,445	2,889



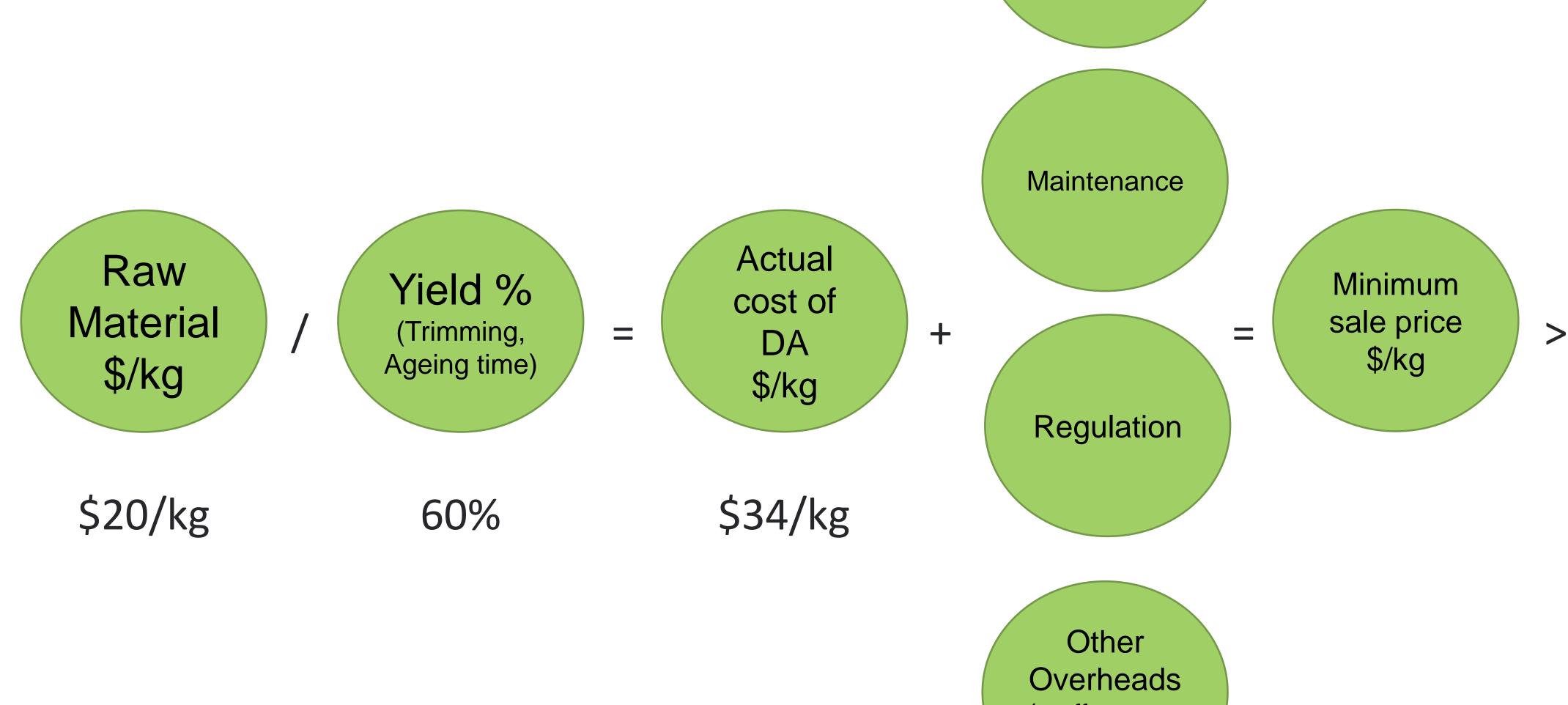
2. Third party auditors - \$800 x 4

3. Product testing, environmental testing\$30/test x 3/product type/yr





So is it worth it?



Equipment Market willingness > to pay

(staff, power, equipment)



Contact

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Guide to dry ageing

CSIRO cite a range of parameters which have been adopted by all subsequent programs and guidelines.

Recommend settings:

- Temperature (~ 0°C)
- Air speed (0.2 0.5 m/s)
- Relative humidity (75 85%)
- Time (recommend > 21Days)

