

Polygenta: TAG 2011
we make a “material” and sustainable difference...
“profitability and sustainability – complementing each other”

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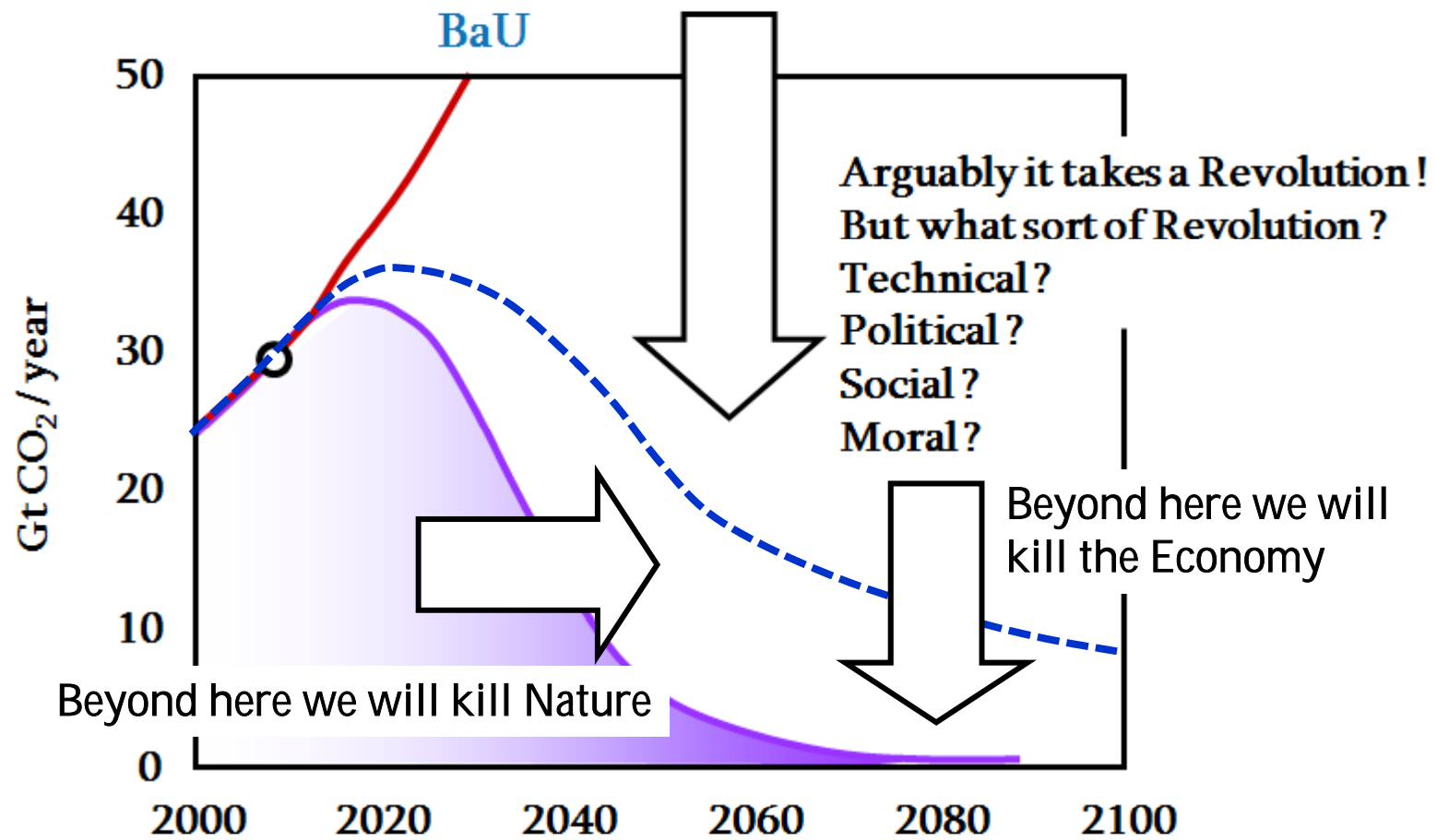
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- I. sustainability – or a revolution needed?
 - a. Nature or the Economy? Sustainability vs. Profitability?
 - b. “Ancient Regime”, Desired State and Actors.
- II. ReNew: a revolutionary, commercially proven technology.
- III. sustainability with feedstock and pricing advantages.
- IV. from 500,000 bottles/day (2011) to 100% recycle based premium POY/DTY – beyond profitability: a tangible societal impact.

I sustainability: a revolution needed?

I: Polygenta: we make a material difference...
sustainability: a revolution needed?



I: Polygenta: we make a material difference...
sustainability: a revolution needed?



The Ingredients for a Revolution:



an Ancien Regime

A desired future

actors

Eugene Delacroix, Liberty leading the People (1830)

an idea

action

actors

**I: Polygenta: we make a material difference...
sustainability: a revolution needed?**



- **the 'Ancien Regime':...**

- annually, how many PET bottles are disposed in landfills? **250 bln...**
- how many barrels of oil equiv. are wasted every year by not recycling PET bottles? **45 mln_bb**

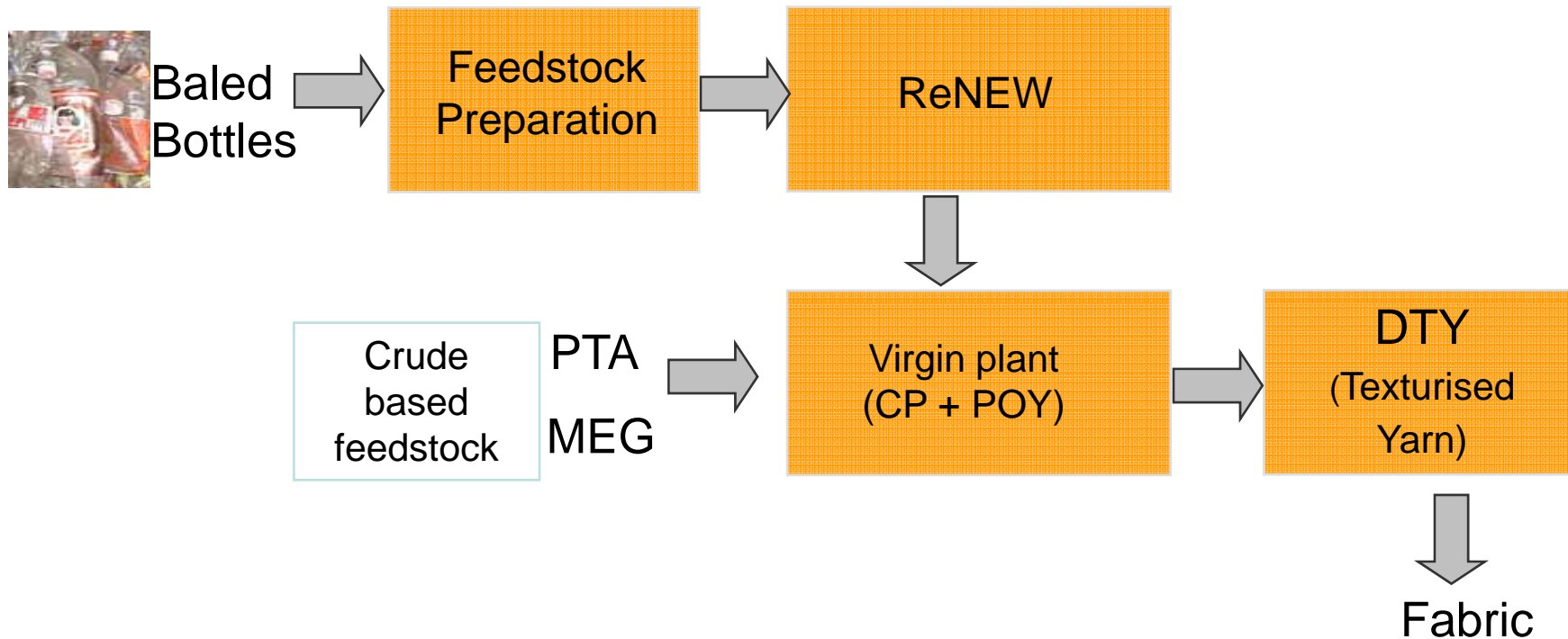


- **the desired state:...**

- recycling 1 ton of PET saves 5.7m³ of landfill space
- a significant reduction of CO2 emissions [1.5 - 2 ton/ton]
- a considerable upgrade of the waste PET into premium yarns / products

II ReNew: a breakthrough, commercially proven technology

II: Polygenta: we make a material difference... a breakthrough, commercially proven technology



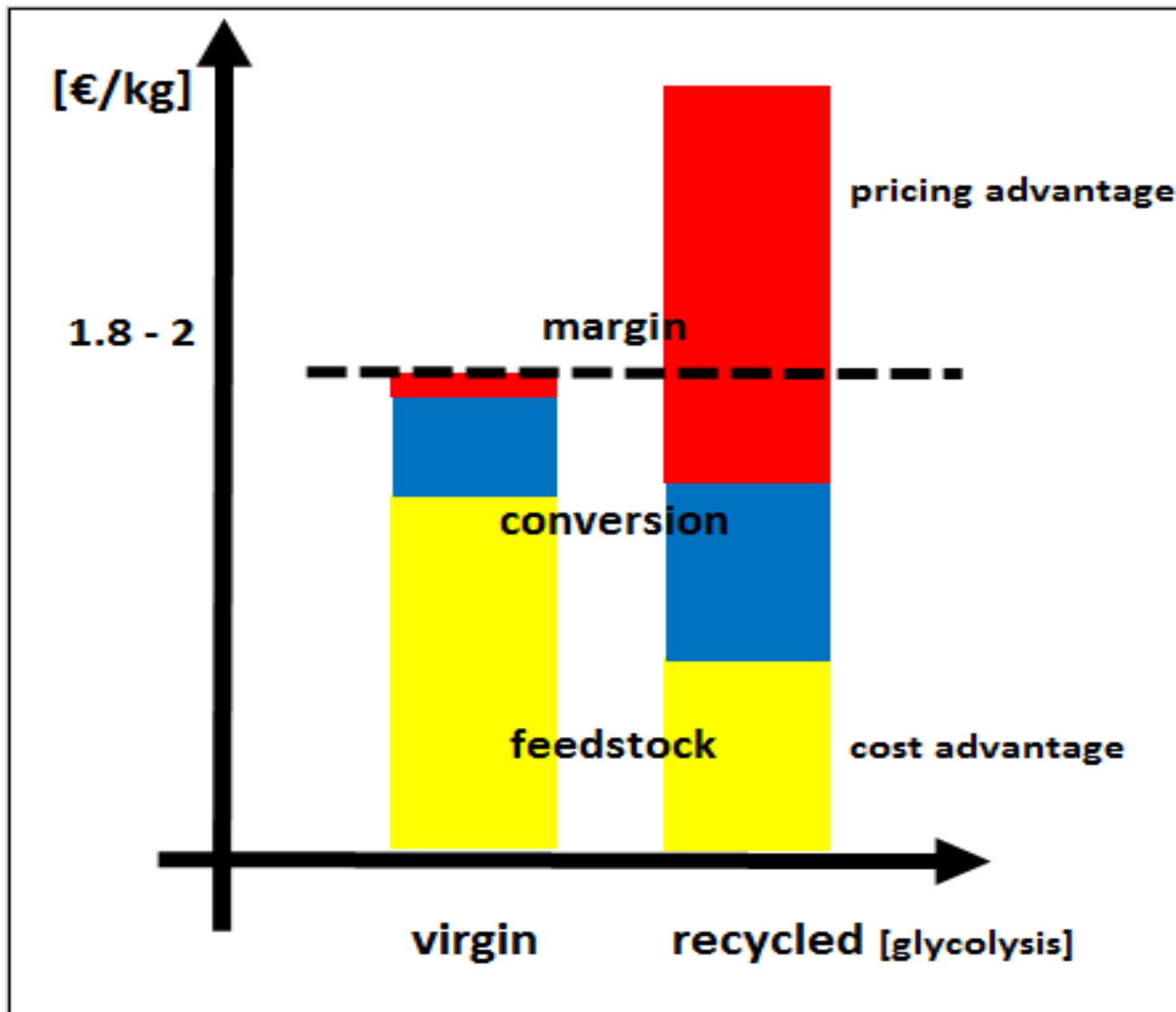
**Using mixed coloured PET bottles...
to produce high quality products at low cost...
unlike any other PET recycling process**

II: Polygenta: we make a material difference... a breakthrough, commercially proven technology



III sustainability with feedstock and pricing advantages

III: Polygenta: we make a material difference... sustainability with feedstock and pricing advantages



IV beyond profitability: a tangible societal impact

IV: Polygenta: we make a material difference... beyond profitability: a tangible, societal impact



- Q3 2011: Polygenta converts **> 500,000 PET bottles per day** into premium, **consistent** quality 20% blend POY and DTY
- We sell DTY grades ranging from 75 to 450 deniers at virgin performance and price parity
- **We successfully spin a variety of 100% - based ReNEW PET yarns** – including near micro-denier 133/66 POY at a commercial spinning speed of 3,000 mpm
- We have successfully developed an oligomer (ester) flaking technology, which allows us to move the BHET safely and cost effectively around the world.

IV: Polygenta: we make a material difference... beyond profitability: a tangible, societal impact



- I. new sustainable business creation and attractive financials**
- II. an innovative business model and experiment that brings together:**
 - a. enhanced capacities through a critical concentration of stakeholders
 - b. a high degree of integration around a common business plan, driven by entrepreneurship.
 - c. and scales up further Indian innovation performances
- III. knowledge to fuel sustainable growth and create more/new value.**
- IV. education and development of entrepreneurial people.**
- V. a tangible contribution to a competitive, inclusive, connected and greener economy.**

IV: Polygenta: we make a material difference...
TAG 2011 - Mumbai



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