



Innovation at Viridor

RTPI South West Event - 5th February 2020



From Cottage Industry to Production



Finding the “easiest” route to market for the easiest materials to collect – “Rag & Bone”

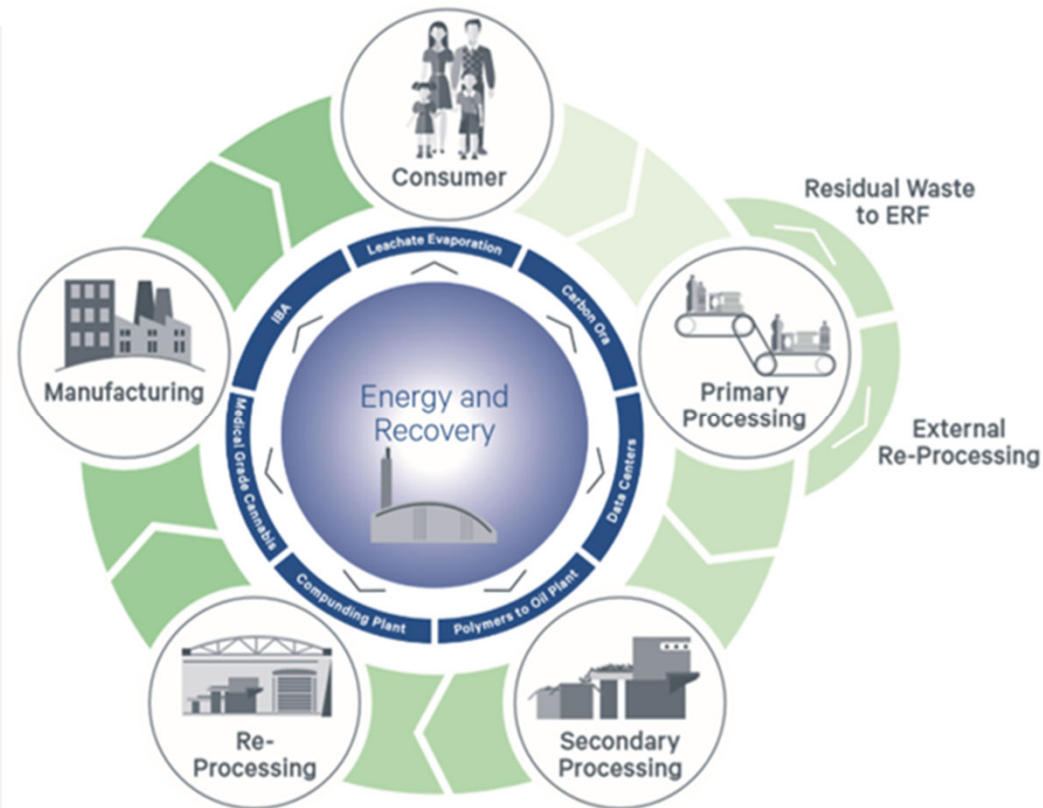
Disposal Economy decouples Material Value form Product Value

Delivering Diversion Targets – Tonnage.....TonnageTonnage

Picking the best Technologies from Europe

Increasing the Range and Quality

Development of Production Process to make Materials Market Ready



Plastics a crisis or an opportunity?



One of these has 500 times greater CO₂ Impact



What we need are facts.....



Deodourising Plastics

Key driver

- tax on plastic packaging without 30% secondary materials

Challenge:

HDPE plastic, for milk bottles, attracts a high market price

Historically difficult to market due to faint residual odour – manufacturers reluctant to use it in products

Solution:

Develop a deodorising technology along with the technical standard overcomes this issue

A premium product and the opportunity to form long-term agreements with major manufacturers of consumer goods



Moving Materials up the Value Chain

HDPE, PET, PP coloured and uncoloured

£9.6M grant to demonstrate two new technologies for

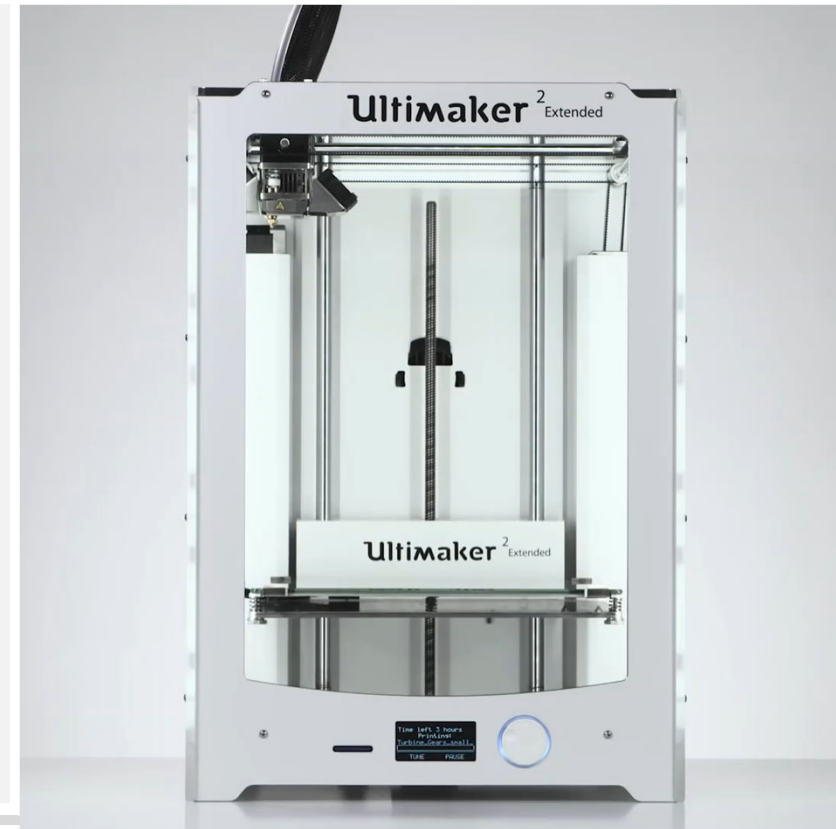
a. 3D Printer feedstock and filament

b. Injection Molding

3D Printing feedstock on a Viridor site

Injection molding in Almere, Netherlands

Both Projects require the development of pilot facilities





CCm Fertiliser – Walpole Demonstrator

Installed at Walpole

Agricultural grade fertiliser with CO₂ Capture

Project Grant funded through Innovate UK, £1.2M

Product passes Fertiliser regulations

Five Years of Field Trials (Grass and Cereals)

Below Ground performance assessed

Positive results with Trials in the South West



Report on the 2015 trials of the CCm carbon capture product on the growth and productivity of crops



Response in all trials has been:

“that the product demonstrated a promotion of grass production in an entirely similar way to that which would have been expected from commercial products”.

Philip John, Professor Emeritus School of Biological Sciences University of Reading

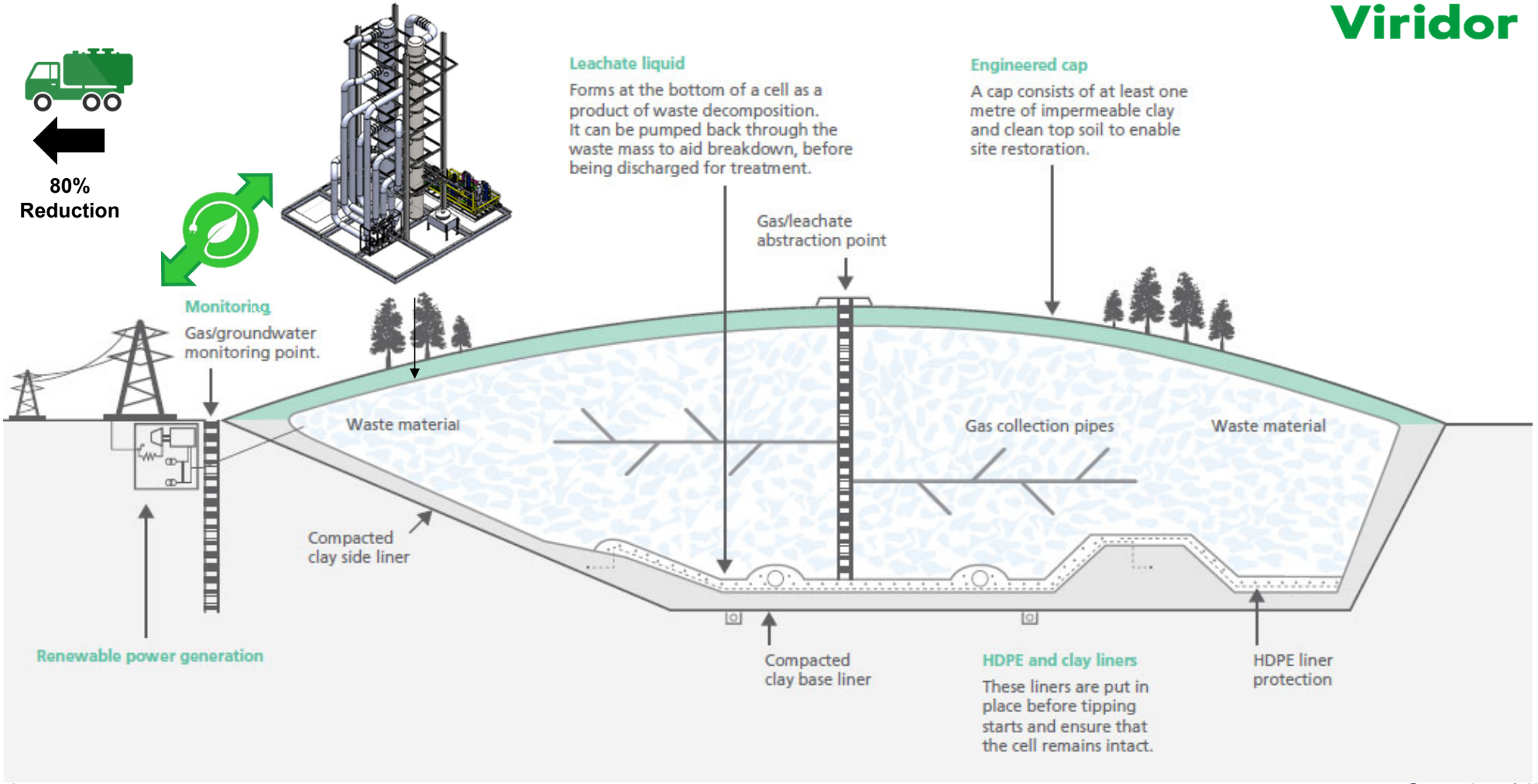


Innovate UK



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Minimising Leachate Costs & Protecting the Environment



Embracing Innovative Technologies



- Developing a Recycling Industry
- Circular Economy
- Consultations and the Future – Emerging Technology Demonstrators
- Innovation delivered in partnership with Regulators

Developing the future opportunities while avoiding greenwash pitfalls





Technology & Innovation

Thank-you

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