Organics recycling from a UK perspective:

Generating added value for upstream material sources and end users

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Who are we?









- Founded 2006
- 45 employees & >150 trusted contractors
- Nationwide across UK and some international consultancy
- Operational & Technical
- Accredited and audited

What do we do?





Utilise organic matter & nutrients

Promote Waste Hierarchy

Part of the Circular Economy

Recycle materials that have a value to soil

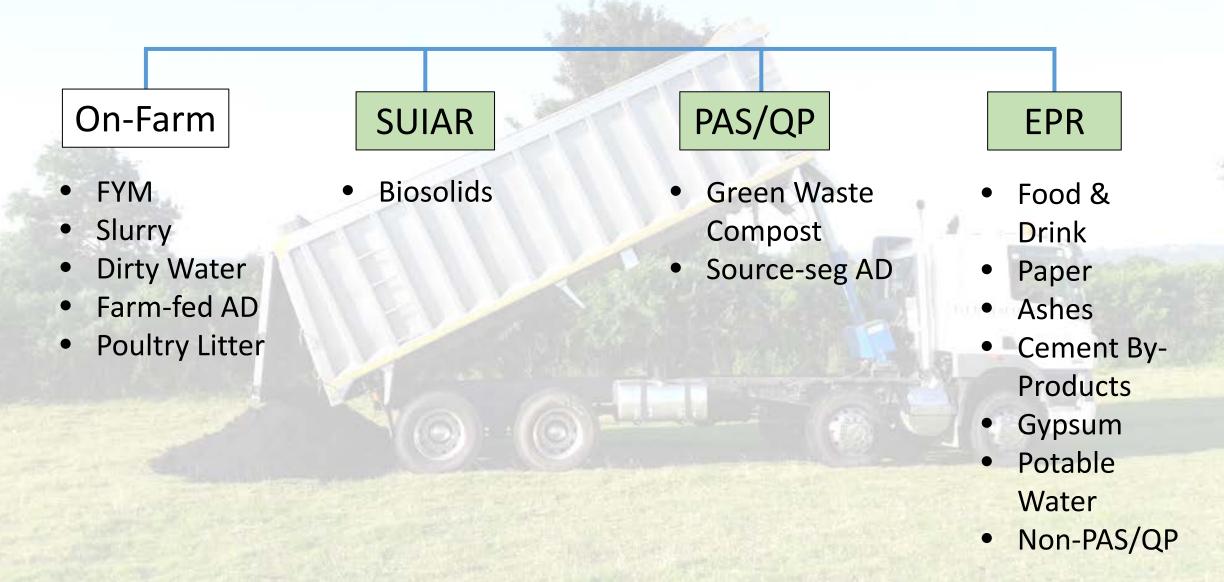
~750,000 tonnes *p.a.*

Reducing landfill

Reduce reliance on manufactured fertilisers

Working with farmers

Organic Fertilisers – UK Regulations



'Added value' 'An improvement or addition to something that makes it worth more'



Value to End Users

Calculate a fertiliser replacement value for a specific material:

~£300/ha for compost applied at 35 t/ha (247 kg/ha N, 138 kg/ha P_2O_5 , 140 kg/ha K_2O

Nutritional value often 'sells' the material to the farmer...

Will it add Soil Organic Which nutrients? Does it help soil pH Waste material Matter? Potassium Yes, to a degree and Composts Nitrogen and Phosphate Yes dependent on specific (slow-release) compost Nitrogen (slow-release) Yes, if lime treated as Biosolids Phosphate Yes per our proposals Some Potassium Lime Potassium and trace (Derived from elements (dependent on No Yes Cement source) Manufacture) * Nitrogen (readily available) Solid digestates - Yes Anaerobic Phosphate Nο **Digestates** Potassium Liquids - No Trace elements To a degree. The main benefit is from calcium Gypsum (Derived sulphate which reacts Calcium and Sulphur No from Plasterboard) with soil clays and significantly improves soil structure Yes. This material will only be Potassium Compost Like stored and treated at the site. It Nitrogen and Phosphate Yes will be used on restoration sites Output (slow-release) I.e. non-agricultural land.

Added value to End Users



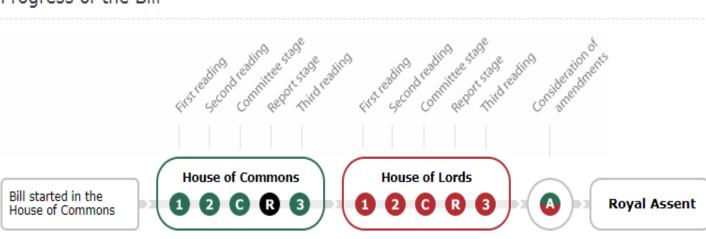
- Organic matter, not so easily quantified in £, but a key benefit
- Reduces reliance on fertilisers
- Can add a liming benefit
- Can add micronutrients
- Promotes working partnerships
- Promotes sustainability and the waste hierarchy

Agriculture Bill 2017-19

Type of Bill: Government Bill
Sponsor: Michael Gove

Environment, Food & Rural Affairs

Progress of the Bill



Potentially counteracted by



- Transport
- Variability
- Emissions
- Consumer & public perceptions
- Contaminants







- Overcoming market perception
- Reduces landfill
- Meets recycling targets
- Aided rapid development of AD industry
- Promoted more producer responsibility through changes in regulation



What is the current focus as a sector?



Review existing processes/definitions

Review existing standards

Remove avoidable plastics upstream

Recycle quality materials that have a value to soil

Working with farmers, changing mindset

Better synchronise organic matter & nutrients with crop demand

Storage

Reduce transport

Thank you

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