

Mikhael Metauro National Sales Strategist - Focused on Circular Economy March 22nd, 2017





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Before we get Started...

There are a few things I want <u>YOU</u> to know



WASTE MANAGEMENT

DISCARDED MATERIAL MANAGEMENT

RESTORATIVE



REGENERATIVE

No Value

Material Value

process & remarket

Material Recyclability

Not Recyclable?





OCC A CIRCULAR LEGEND!



CIRCULAR CHECK LIST

Made from renewable resources

Competitive package option for producer

Retail and consumer friendly

Can be reused or collected for recycling after usage

Easy to segregate for recovery from consumer

Post collection material recovery requires average effort

Secondary material markets are strong

Many downstream processors

Recycled materials to be used in making the same product









IS WTE ON THE CIRCULAR CHECKLIST?



No value =/= not recyclable



When landfill or burning is cheaper, is it an option?



- If landfill and burning is an option, is this an option for all products?
- Is WTE the easier option?





ANALYZING THE FOAM TRAY



The **FIRST North-American** PS FOAM TRAY for fresh protein PACKAGING made with **RECYCLED CONTENT.**



EVOK'S CIRCUALAR PATHWAY



WHERE DID EVOK GO WRONG?

- Made from renewable resources
- Competitive package option for producer
- ✓ Retail and consumer friendly

Can be reused or collected for recycling after usage

Easy to segregate for recovery from consumer

Section Material recovery requires average effort

Secondary material markets are strong

Many downstream processors

Recycled materials to be used in making the same product













WHO'S RESPONSIBILITY IS IT?



MEASURING CIRCULAR INTEGRITY

Cost to collect, recover & make material market ready

Circular Integrity Cost (\$/kg) = Virgin - (A+B)

Total Cost of Recycled Resources = \$A+B/kg Downstream Processing = \$B/kg Cost of Recovered Material = (\$A/kg)













CIRCULAR THINKING COMPANIES...

- 1
- Design Products that are **Restorative, Recyclable & Cost** Effective
- 2
- Invest in Innovation that Recovers their Products



Drive their Own Agenda – not dependent on others to find end of life solutions



Recognize **Circularity comes at a cost**, however are convinced benefits will out weigh costs



Consume their Recycled Materials





WE NEED A LEVEL PLAYINGFIELD WHERE ...

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- All materials are treated equally
- Products that are **not circular are penalized**



Move from commodity driven market \rightarrow a **'circular integrity** cost' driven market

A package be considered a product



Producers work together to identify strategies that lead to a strong innovative 'circular' supply network













ARE WE CIRCULAR OR SPINNING IN CIRCLES?

Without Change...



Companies with solid track record of sustainability and reputation for 3Rs, EPR, and **discarded material recovery will face an endless array of the same challenges**



Longer timelines for adoption of progressive technologies may lead to **accelerated infrastructure investment in conventional 'waste solutions'** such as landfill and incineration



Status quo will prevail with emphasis on conventional solutions



A rigorous debate on what's possible will drift constantly into the future, **increasing doubt anything can happen**





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