



Pressing Carpet Industry Environmental Issue

What is the Answer for This?





Technology Changes

✓ *Encycle – Thermoplastic tile*

- ✓ *Indicative of new trends*
- ✓ *tiles 50% of Commercial Market*

✓ *New Broadloom coming*

- ✓ *Similar Technologies*
- ✓ *Commercial & Residential*



Proof of Concept

- ✓ *Initial Capacities filled*
- ✓ *Economic Viabilities verified*
- ✓ *Output products Refined*
- ✓ *Process refinements Determined*

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Key Elements

- ✓ *Patent Pending Process System*
- ✓ *Flexible Processes*
- ✓ *Processes All types of Materials*
- ✓ *Scaleable*
- ✓ *Portable*
- ✓ *End Products*
- ✓ *Efficiency of Materials transformation*



Key Processes

➤ *What it does*

- *Carpet De-Construction*
- *Component Purification*



Processes

✓ *Unique Process Sequencing*

- *Patent Pending Processes*
- *Uses Equipment in unique sequence*
- *Allows process of all fiber types*



Flexibility

✓ Multiple Staged processing steps

➤ Produces various value products

- Output Stage 1 - \$ X*
- Output Stage 2 - \$ X + Y*
- Output Stage 3 - \$ X + Y + Z*



Material Types

✓ All Carpet fiber types

- *Nylon 6.6*
- *Nylon 6*
- *Polypropylene*
- *PET (Polyester), PTT, 3GT*



Scalability

- ✓ *Small footprint for Multimillion pound output*
- ✓ *Increased Output with Equipment adds*
- ✓ *Increased Output with multiple lines*

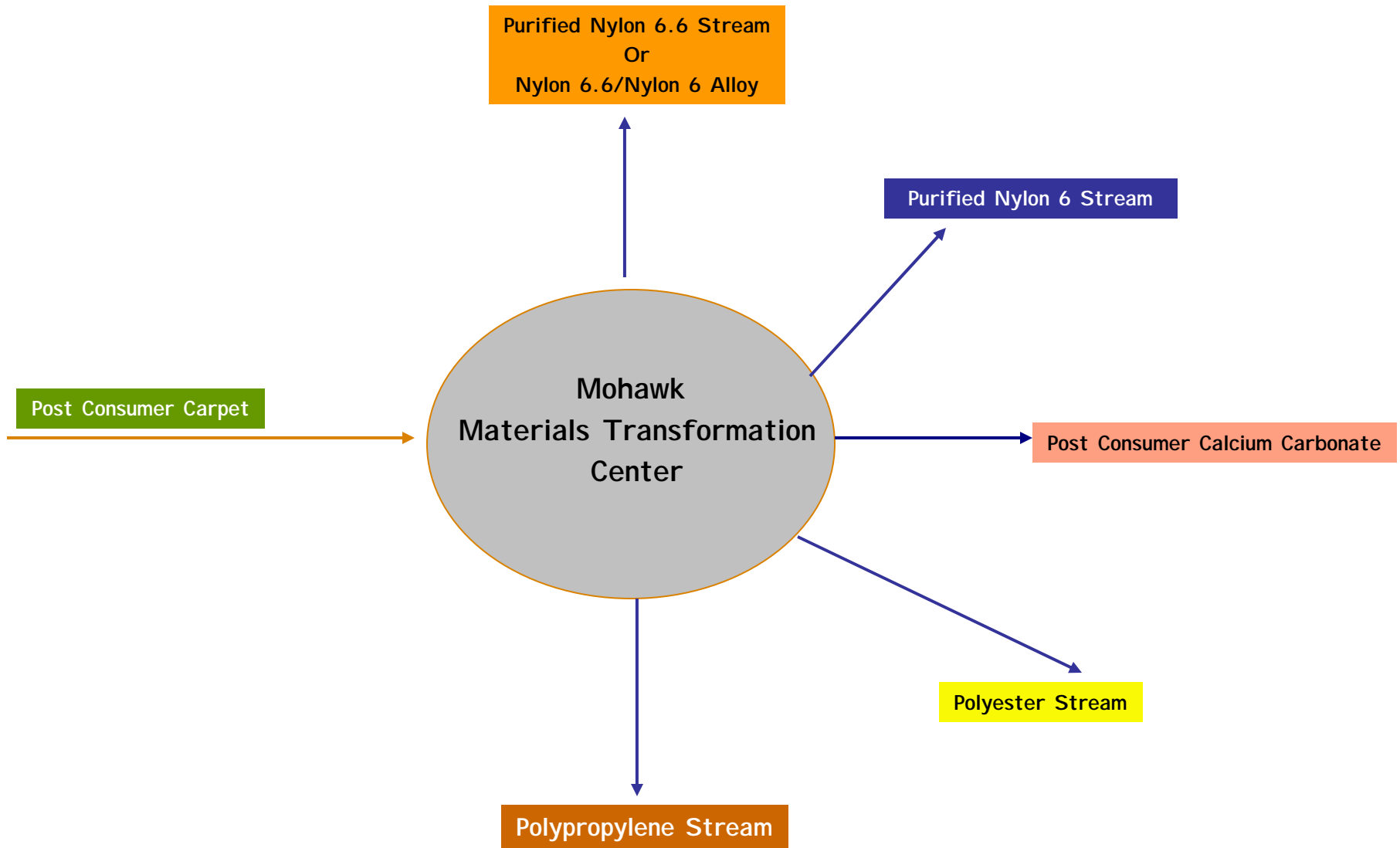
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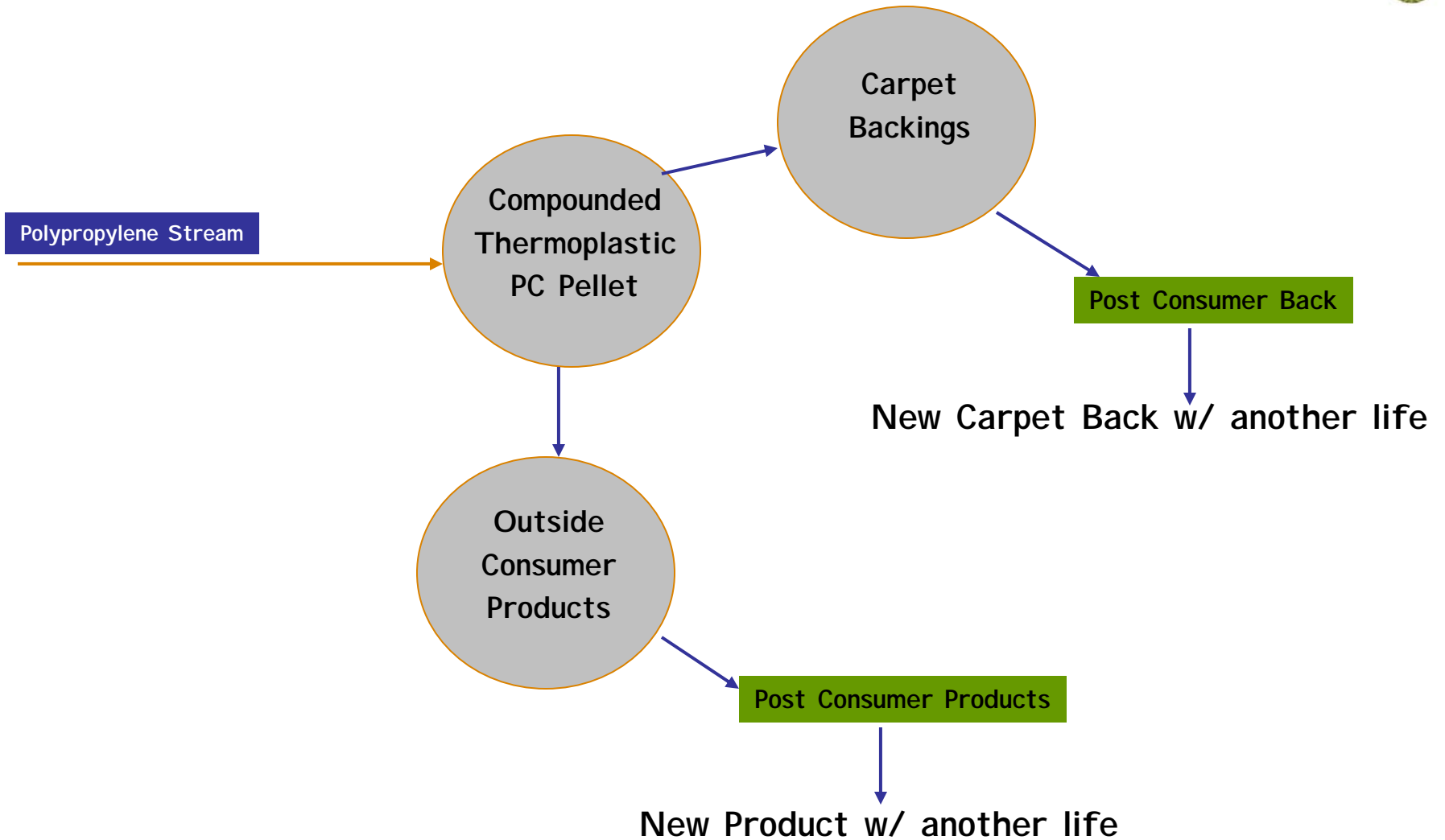
Portable

- ✓ *Easily Set up in any region*
- ✓ *Takes process to the Carpet Supply*
- ✓ *Minimizes Recycling costs*
 - *Increased return on Investment*
 - *Allows for more viable Economics for Recycling*

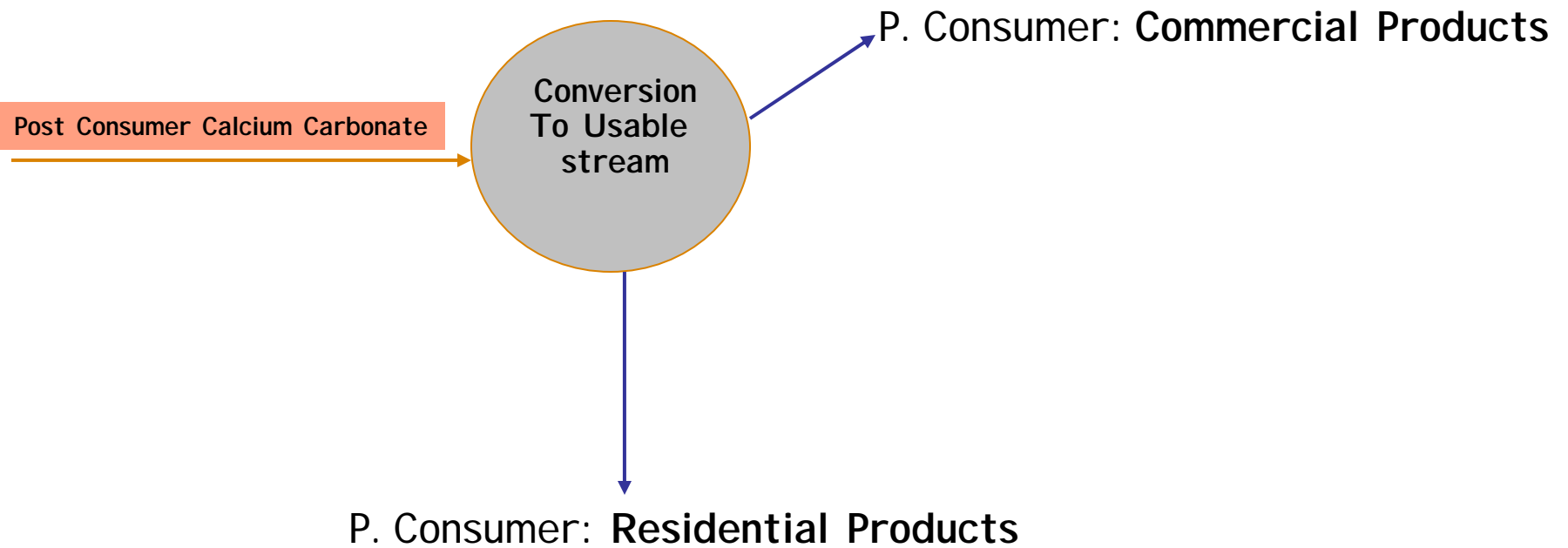
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Closed Loop Carpet to Carpet System



P. Consumer Streams: Carp.Comp. to Carp.Comp.





Efficiency

✓ *High Material Conversion Efficiency*

- *100 lbs P.C. Carpet yields 90 lbs of New materials.*
- *Only 10% of all streams not usable*