



RDECOM



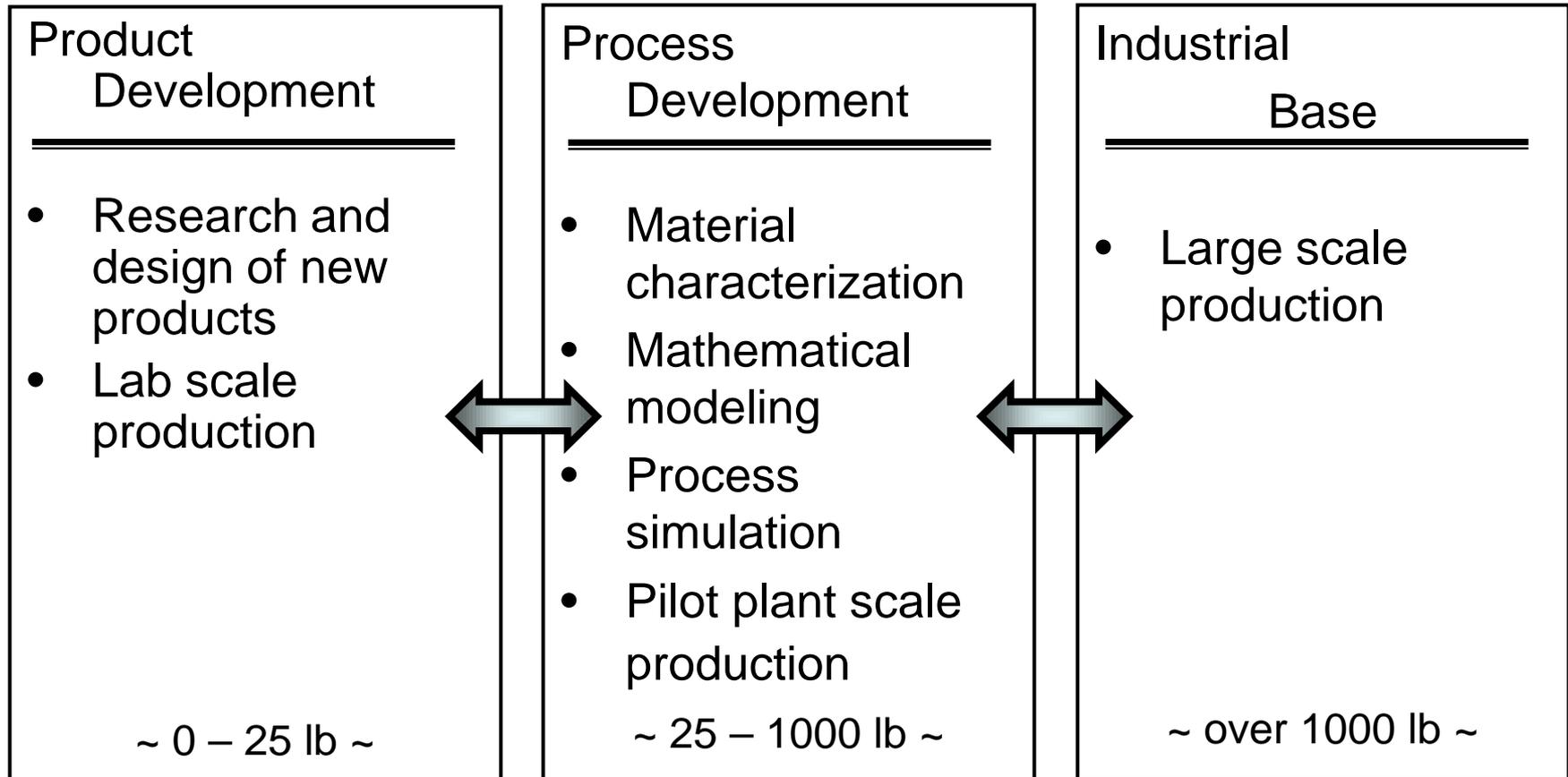
TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.

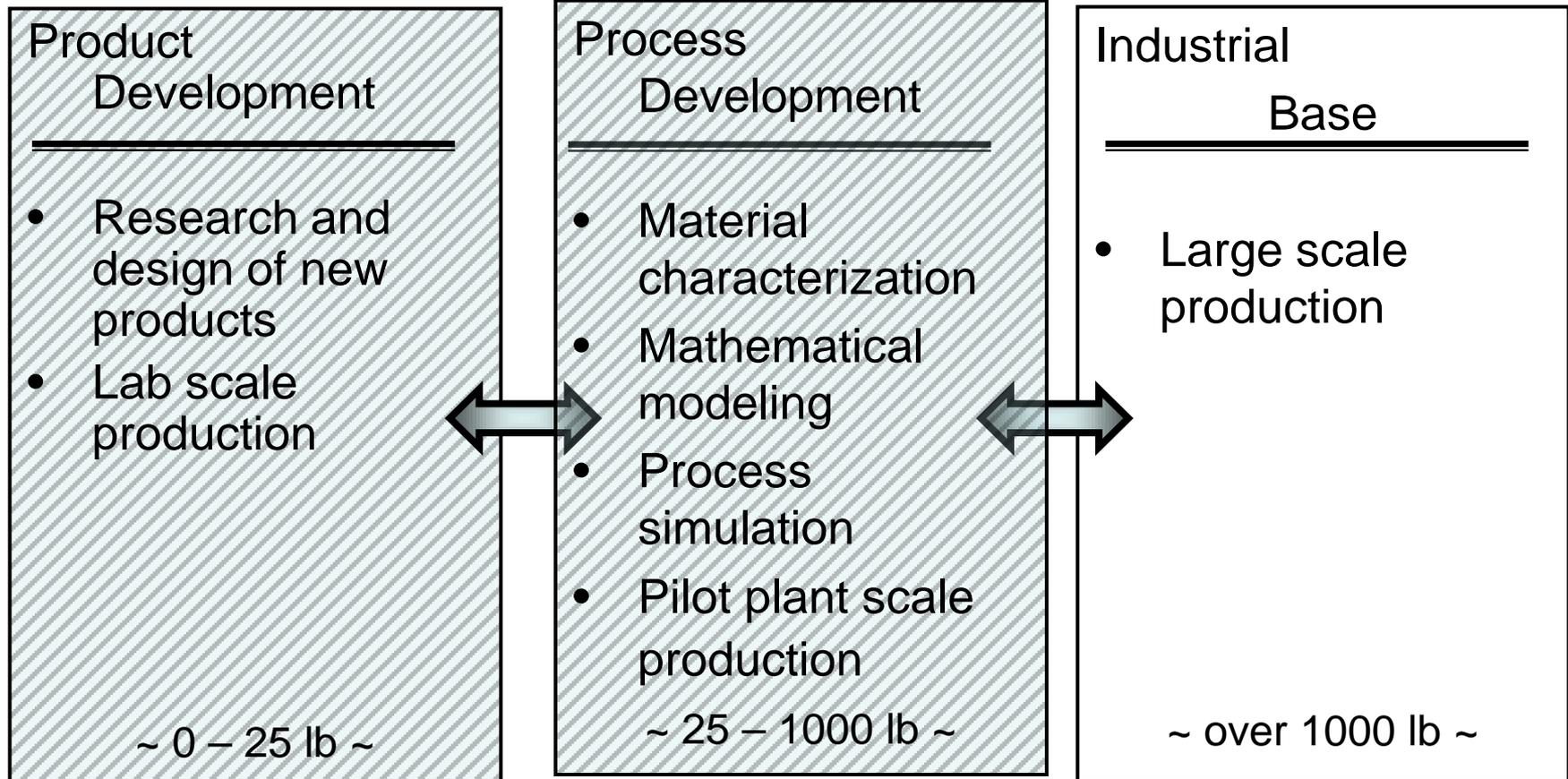
Twin Screw Extrusion of Aluminized Thermobaric Explosives

Extruder Users Group 10-22-08

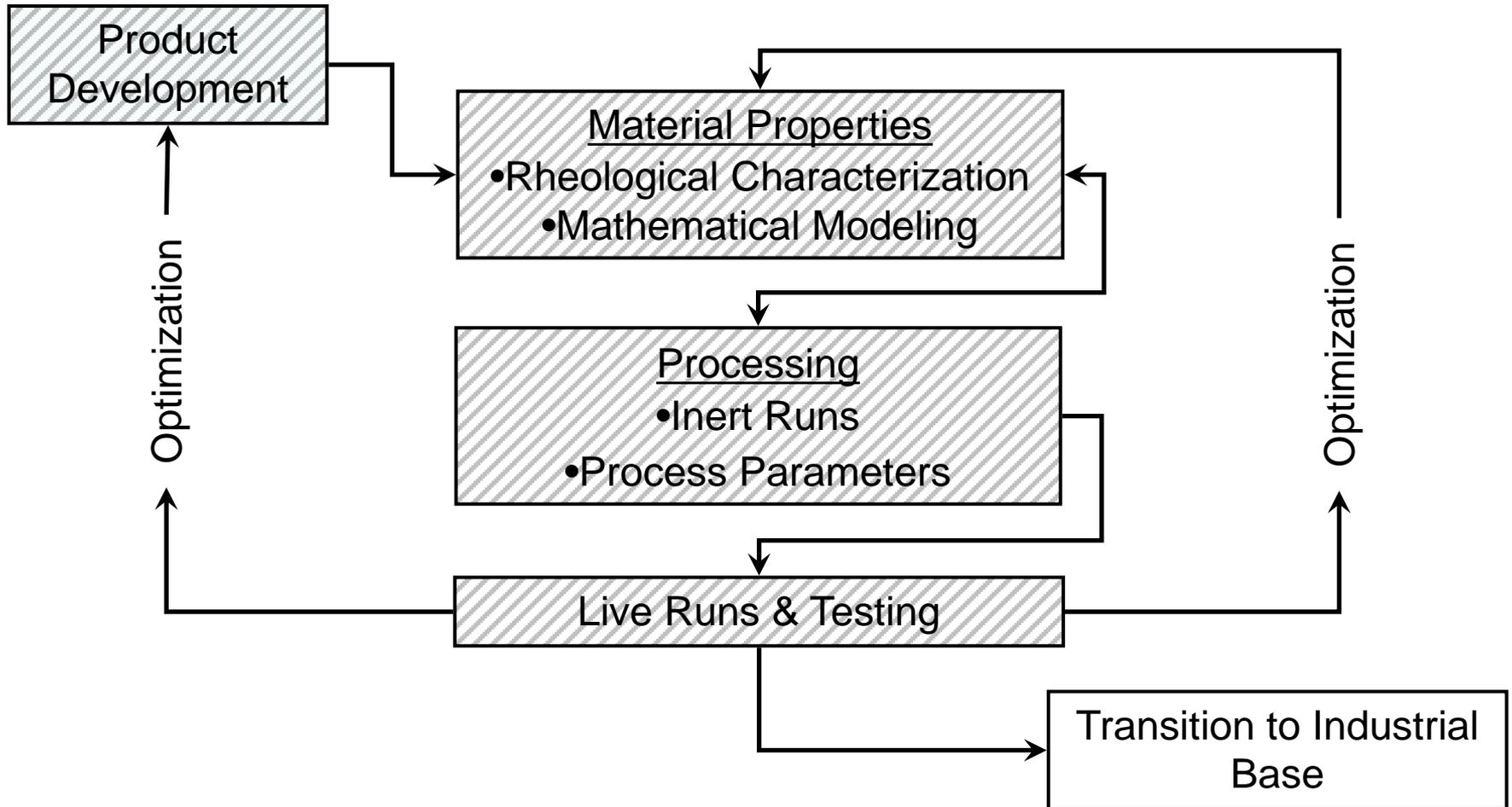
- Michael Fair
- John Bolognini
- William Polwin
- Clark Ream

Overall Project Development Strategy

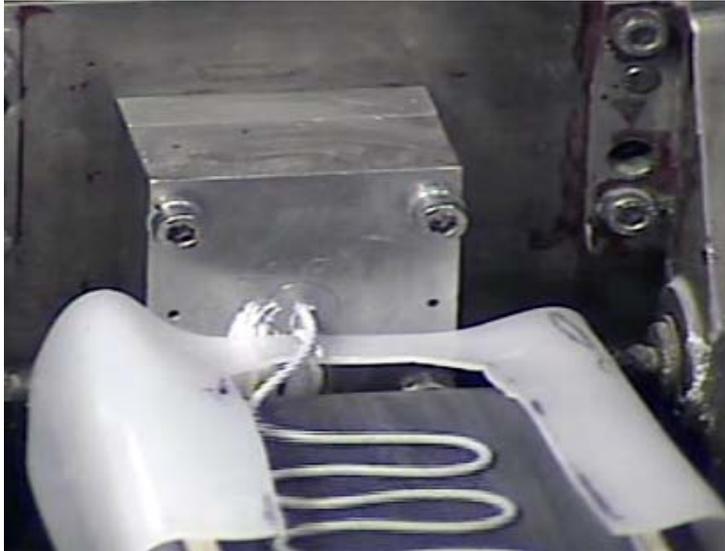




Science Based Approach



Extrusion of PAX-3



Extrusion of PAX-3

Final End Product
PAX-3



Five processing lots with four different PAX-2A lots

Material	Average Deviation (wt%) Inside Lots	wt% difference Between Lots
HMX	0.3	1.16
BDNP A/F	0.1	-0.86
CAB	0.3	0.23
AI	0.1	-0.97

- Over 3500 lb of PAX-3 produced from off-spec PAX-2A
- Met sensitivity requirements
- Lower cost to manufacture aluminized explosives
 - Little to no manufacturing waste
- More reliable method of manufacturing
 - Better quality product
- Greater flexibility to provide specific explosives
- Safer process

- 5000 lb to be produced by mid CY09
- Exploration of different additives outside Aluminum
- PAX – 30 1000 lb
- JSX – 1 250 lb
- PAX – 46 250 lb

