

Gravure v Flexo

Making the choice.

Galen Killam

Manager of Product Development – Alcan Packaging

April 23, 2008



“Best Practices & Emerging Technologies”

GAA Pressroom Conference – April 22-24, 2008

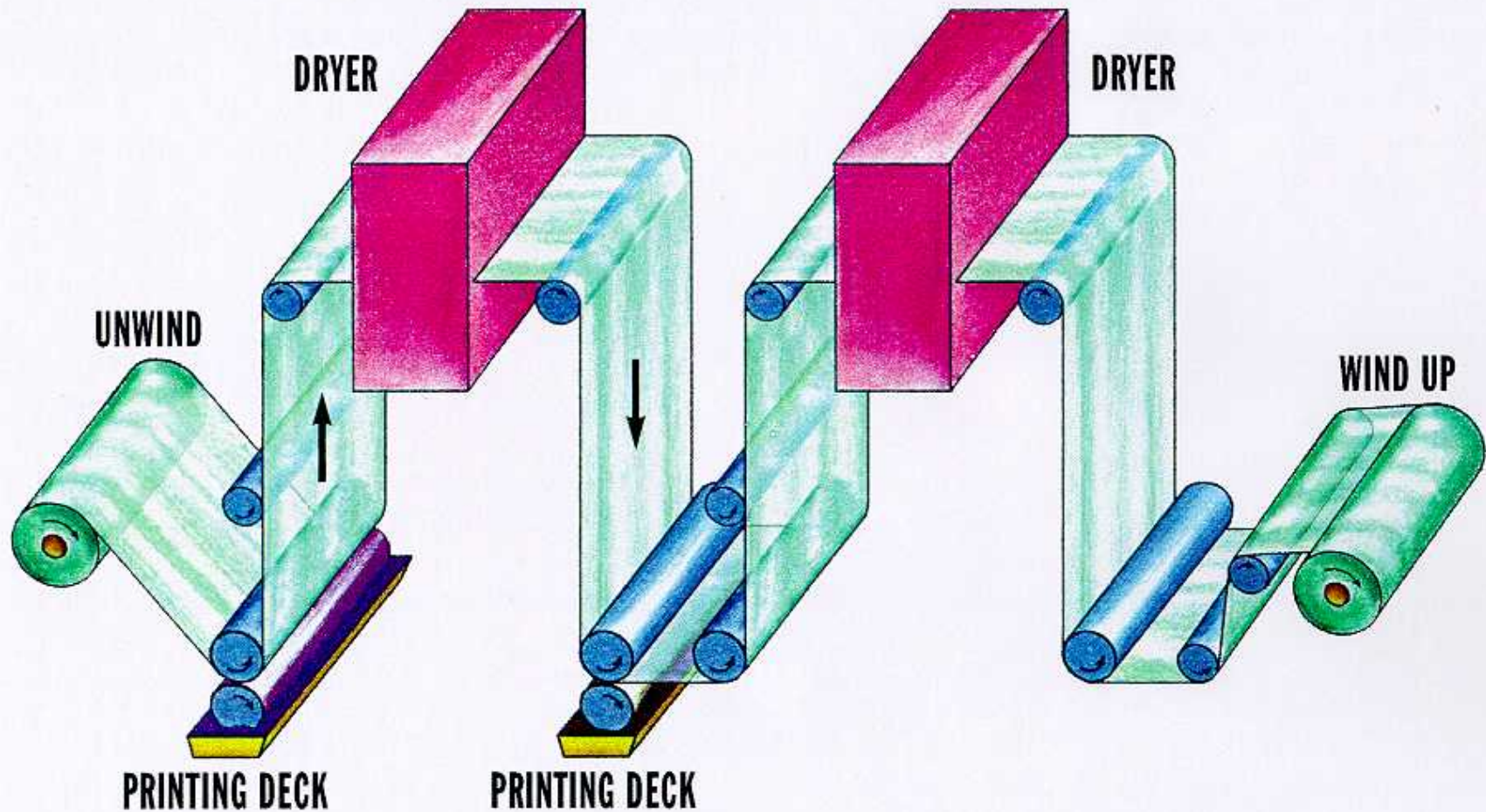
Millennium Hotel, Cincinnati, OH

Agenda

- **Roto / Flexo Basics**
- **Alcan's printing global footprint.**
- **Making the decision between Roto and Flexo**
 - **Cost**
 - **Commercial Considerations**
 - **Substrate choice**
 - **FMOT and SMOT**
 - **Sustainability**



The Roto Gravure Printing Process

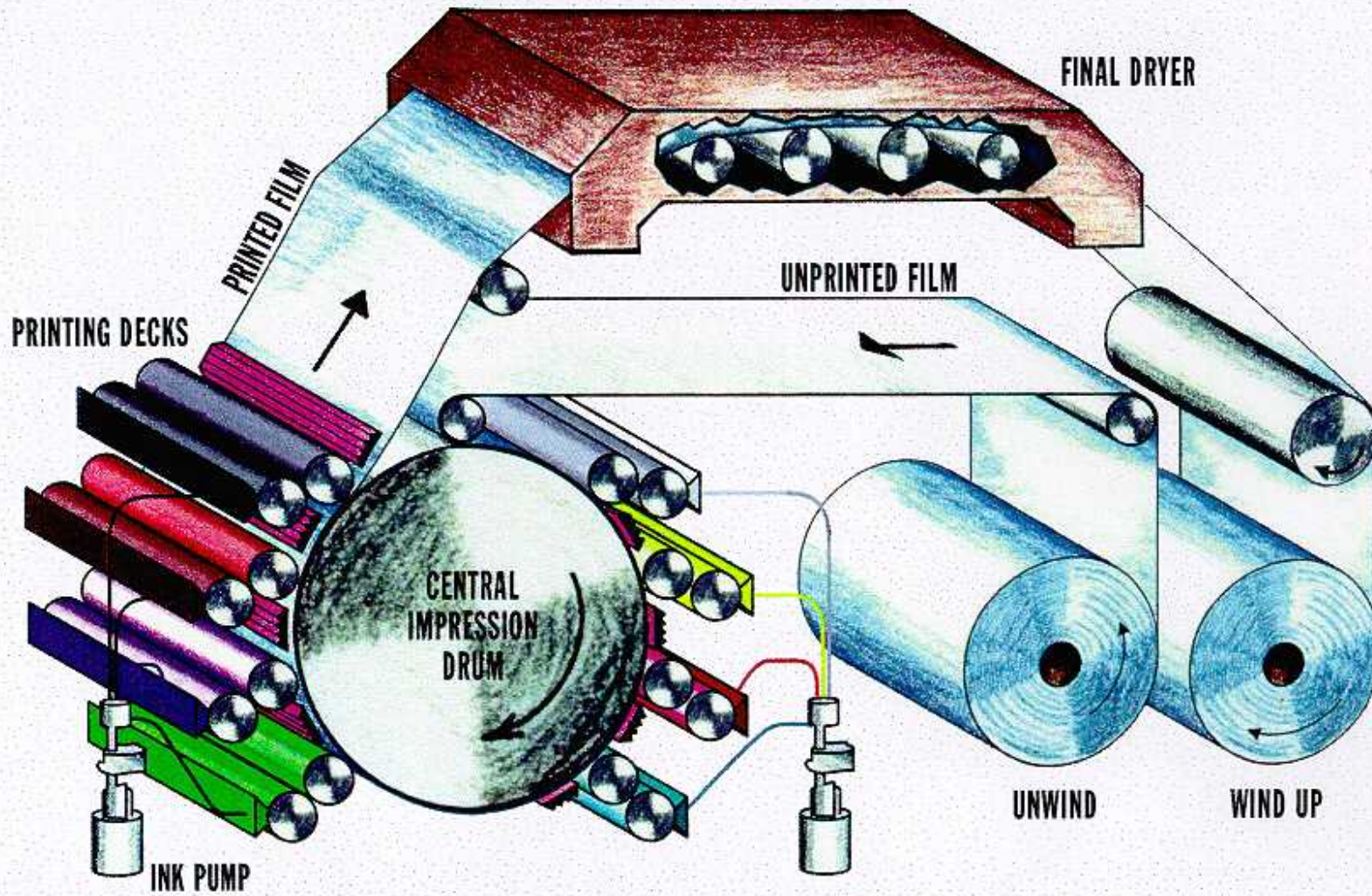


"Best Practices & Emerging Technologies"

GAA Pressroom Conference – April 22-24, 2008

Millennium Hotel, Cincinnati, OH

The Flexo Graphic Printing Process

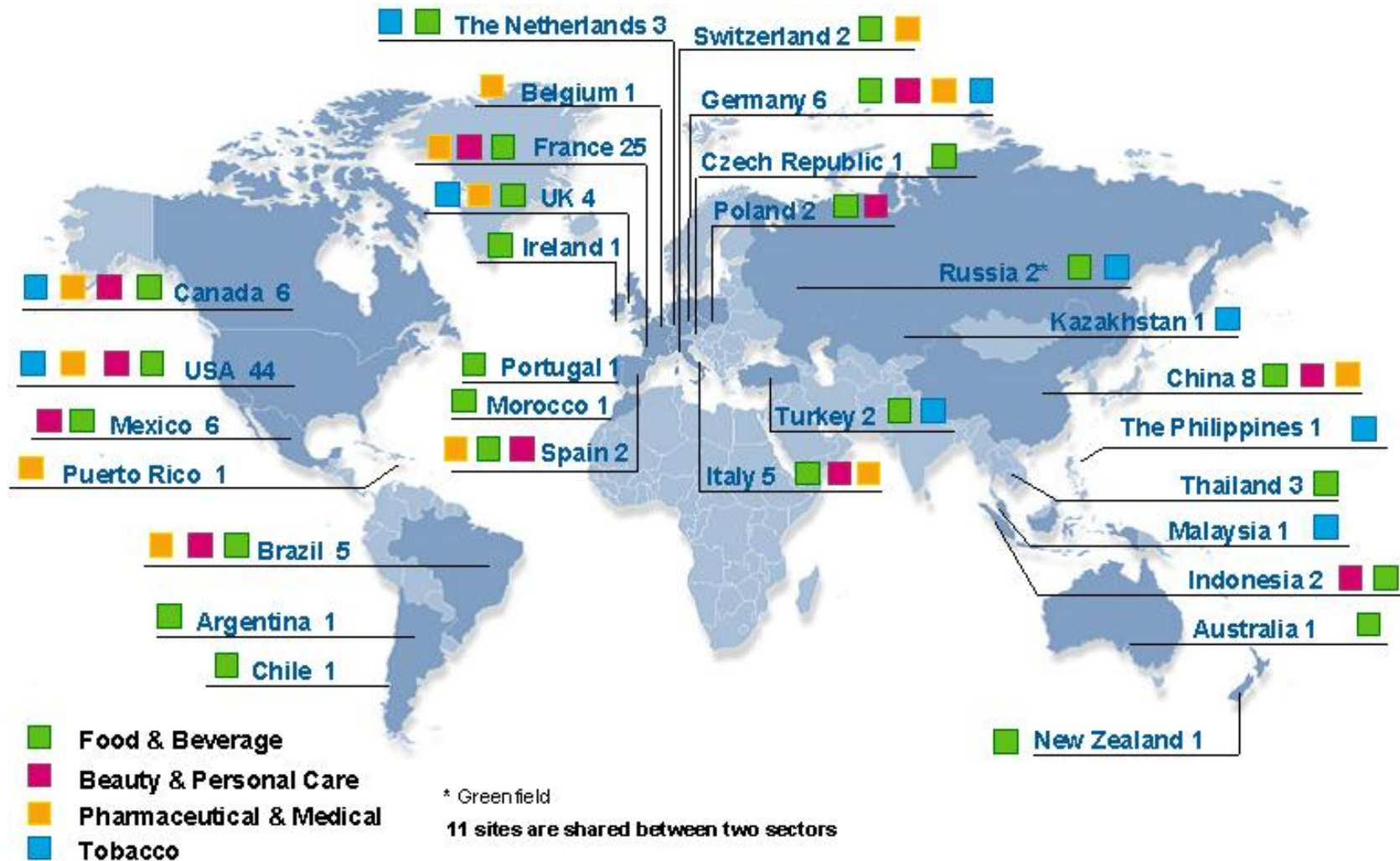


"Best Practices & Emerging Technologies"

GAA Pressroom Conference – April 22-24, 2008

Millennium Hotel, Cincinnati, OH

Alcan's global printing reach.

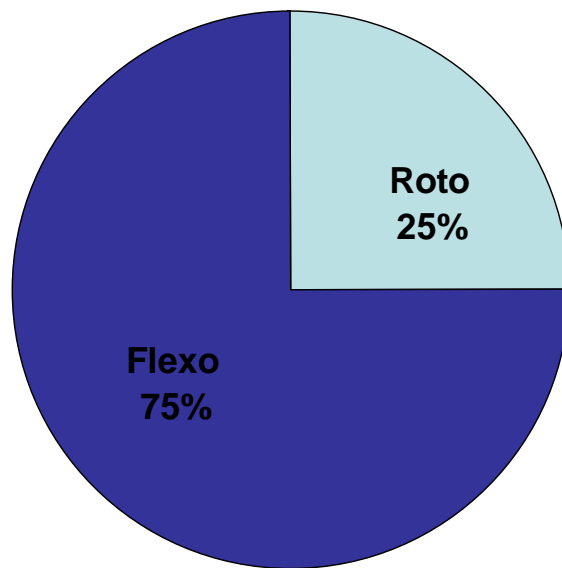


"Best Practices & Emerging Technologies"

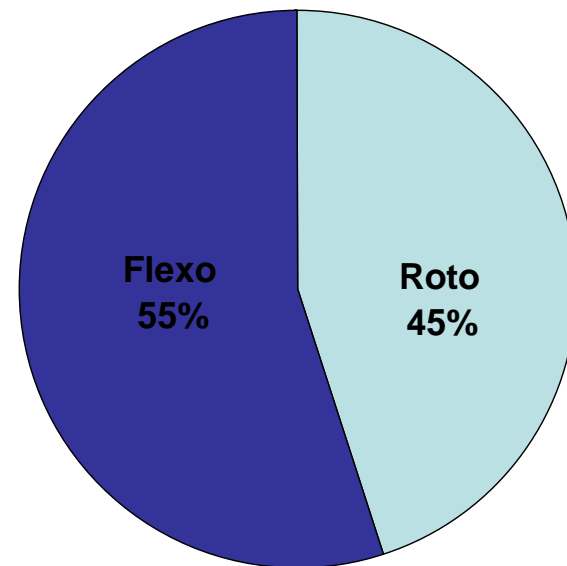
GAA Pressroom Conference – April 22-24, 2008
Millennium Hotel, Cincinnati, OH

Alcan Plastic Packaging Printing Press Capabilities Americas

Number of Presses

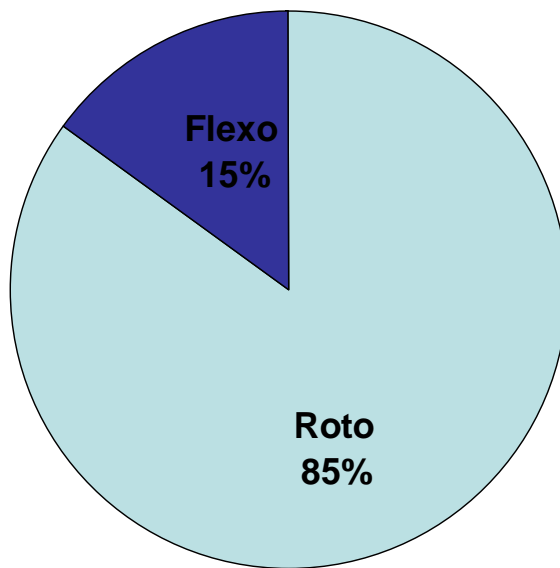


Percent of volume

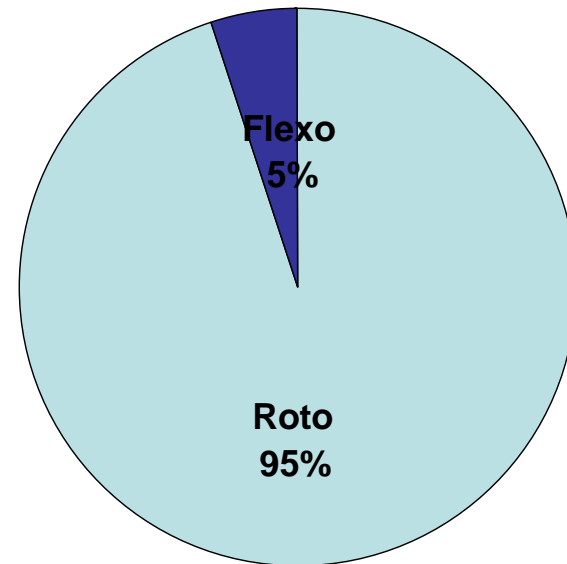


Alcan Plastic Packaging Printing Press Capabilities in EU

Number of Presses

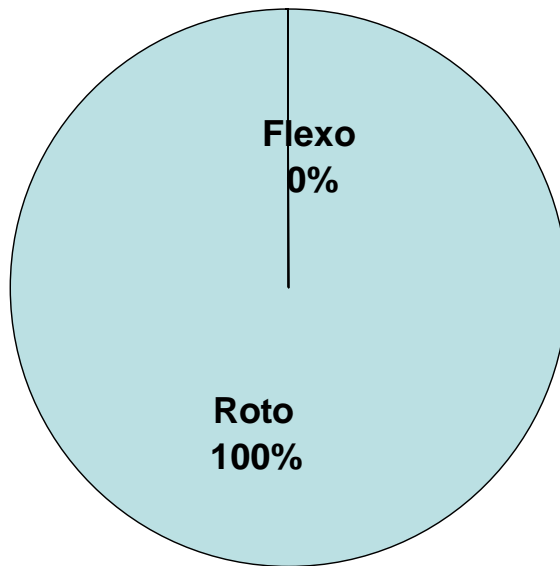


Percent of volume

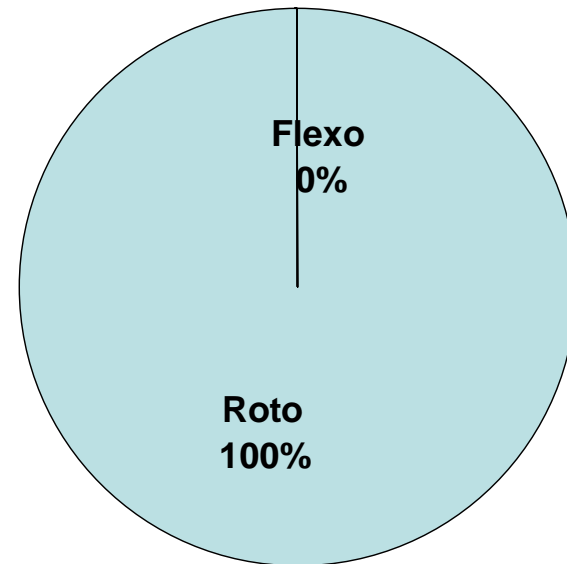


Alcan Plastic Packaging Printing Press Capabilities in Asia

Number of Presses



Percent of volume



Making the Choice -

- **Cost Considerations**

	Pre-press	Processing Time	Handling Cost	Image Carrier Cost (\$)
Roto Cylinders	=	Hours to Days (depending on cylinder needs)	Trucking (500 lbs each)	3X - 10X
Flexo Plates	=	Hours	Mail (3-5 lbs each)	1X



Making the Choice -

•Commercial considerations

	Long Run Length	\$ Cost / piece	High number of copy changes
Roto	+++ Consistent repeatable images	1X	+
Flexo	+ Plate wear on long runs	3X	+++



Making the Choice -

•Substrate Choice

	Extensibility	Substrate Surface	Variable Substrates
Roto	Non extensible	+++	++
Flexo	Extensible and non extensible	+	+



Making the Choice -

•FMOT and SMOT

	Print Quality	Package Functionality	Sustainability
Roto	Highest – Tonal quality	+++	TBD
Flexo	Lower Quality – Line work - Closing gap.	+	TBD



Questions?

Thank You For Your
Attention!



“Best Practices & Emerging Technologies”

GAA Pressroom Conference – April 22-24, 2008

Millennium Hotel, Cincinnati, OH