

# Digital Packaging Summit - 2022

Folding Carton Deep Dive

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## **Digital Labels Timeline**

Version 1.0

DOD and CIJ Systems emerge

Early 2000s

version 5.0

Continued improvement Integration with finishing Hybrid Systems

2016

Version 10.0

Digital and Analog Hardware sales about equal

2020

2000

Dry and Liquid Toner Systems Blazing 16 fpm 2022

Still about even in sales yet only 15% volume and 20% revenue

### Value Proposition:

- Offers operational flexibility and better utilization of production assets
- Increase in plant profitability



## **Digital Corrugated Timeline**

Version 1.0

Scitex (Belcom), Inca, Vutek and Canon expand multi-pass technology

Early 2000s

Version 2.0

Barberan is first to market with a successful single pass installation at drupa 16

2016

Version 4.0

About 100 Single Pass and 18 PageWide systems installed

2022

2000

Belcom introduces the Multi-Pass technology 2016-2020

- EFI, Scitex, Domino, Xeikon, Hanway all enter with single pass
  - HP enters with PageWide for Corrugated
- OEMs stopped selling multi-pass to converters if they had a single pass option available.

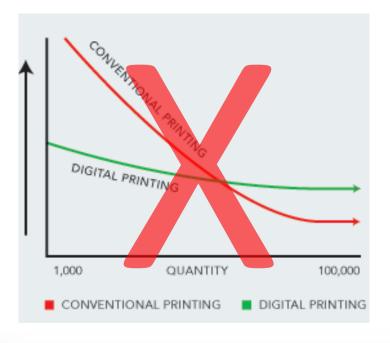
#### Value Proposition:

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### **Karstedt Partners Research shows**

- 40% of orders are now ½ truckload or more
- After 12 months begin moving troubling jobs to digital regardless of quantity or number of colors
  - Relieves pressure on other plant assets
- 4%-5% uplift in plant profits
- It is not about print anymore!



## **Digital Folding Carton Timeline**

Version 1.0

HP and Landa introductions at drupe 12 2012

Version 2.0

Growth in Fits and Starts

More Niche Players mostly through Commercial and

Trade printers

2012 to 2018

Version 3.0

<2012

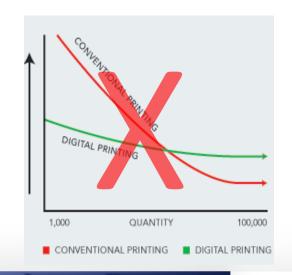
Toner Solutions, niche applications

### Yet to be established

#### Value Proposition:

- Offers operational flexibility and better utilization of production assets
- Increase in plant profitability

### Yet to be seen

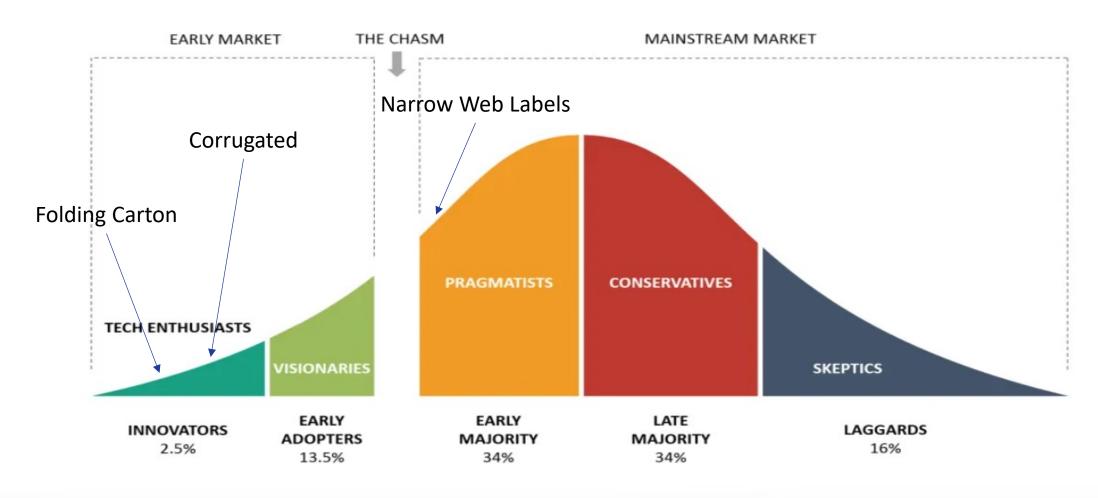


#### 2018-2023

- Landa Real Folding Carton Converters
- HP Continues introduces 35000
- Niche Players Continue
- Koenig & Bauer RotoJet in Beta
- Agfa Speed Set Introduced Beta?
- 2-3 others in the works...
- Developments with Laser Diecutting and Embellishment
- 2005 to Today <u>Significant</u> R&D spend in Folding Carton Sector

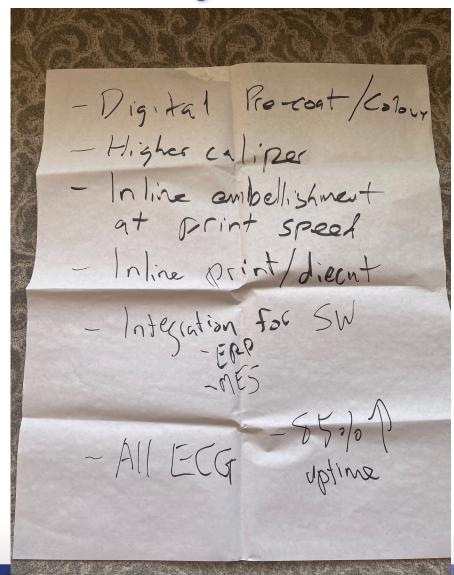


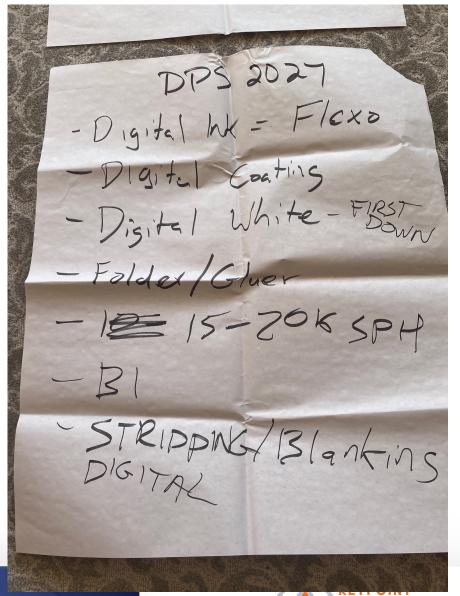
# Where does your company fit?



Dr. Goeffrey Moore

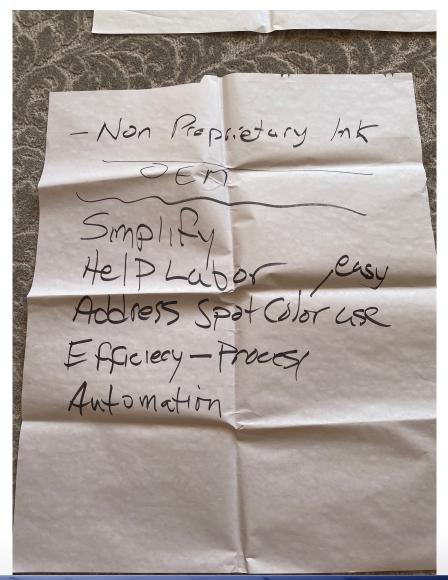
Workshop: What should the digital solution for folding cartons look like in 5 years





Workshop: What should the digital solution for folding cartons

look like in 5 years



## **Results from the workshop**

- For digital printing for packaging to become mainstream a global footprint is needed that includes digital for all printing types with equal reach
  - Labels (is there), Corrugated is next but still a long way from fully implemented, Folding Cartons and Flexible Packaging are still in their infancy.
- 2. Users are looking for more integration of digital to their analog environments
  - 1. Integrated with finishing and embellishments (but not necessarily connected to)
    - 1. This includes a desire for a 40" format
  - 2. Integrated with MIS and overall plant operations
- 3. Users are looking for the TCO to come down
  - 1. Includes more productivity (10,000 sph +)
  - 2. Ink costs (they say parity with analog inks but understand that is just a targeted wish)
- 4. Key takeaway is that by better integration and automation they are looking at digital to help the industry move towards the goal of Factory 4.0

