



WIDE FORMAT – THE UNSTOPPABLE FORCE IN DIGITAL PRINT

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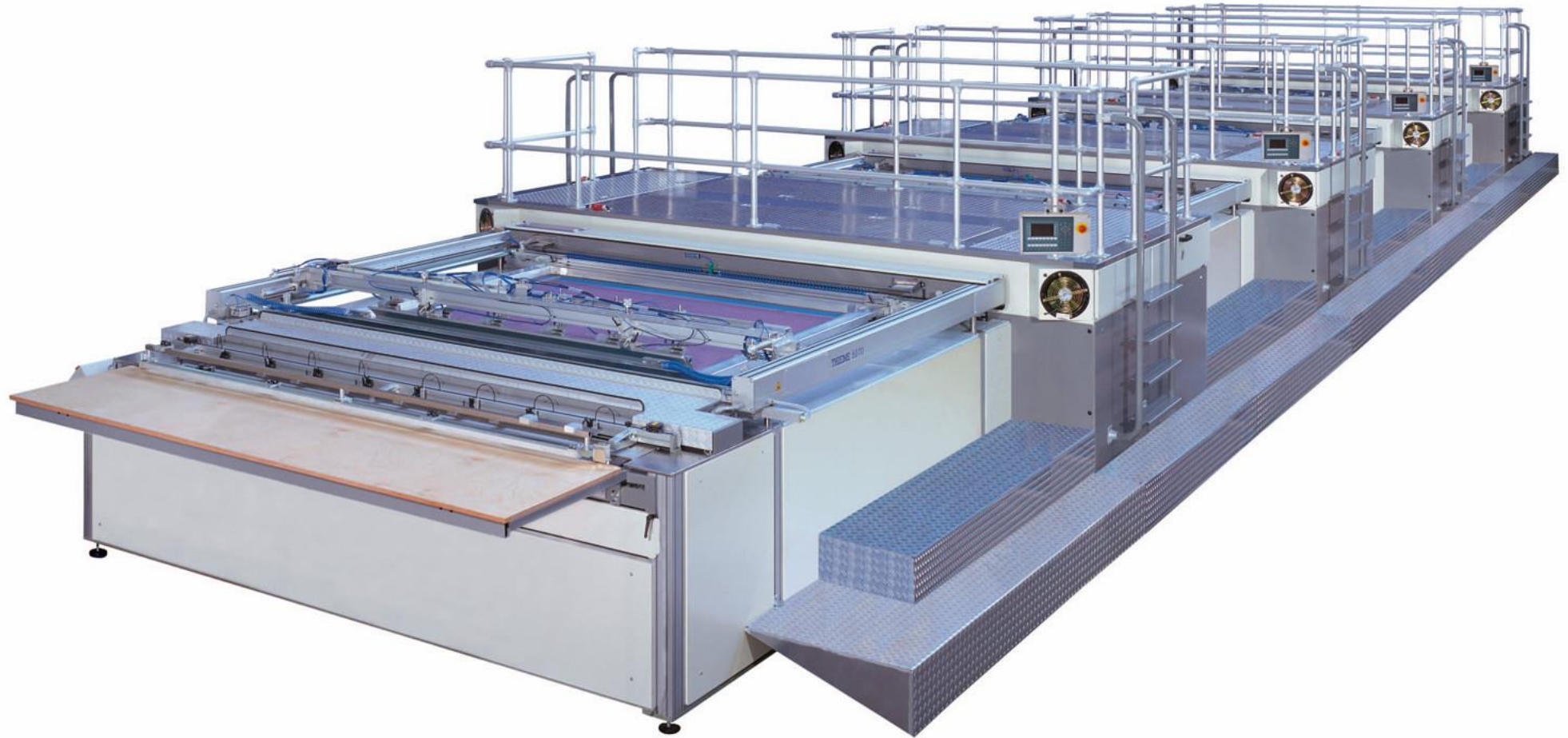
WHERE DID WIDE/LARGE FORMAT COME FROM?

RAPIDA
205



Once upon a time you needed a huge offset press!

OR MAYBE A SCREEN PRINTING LINE, SUCH
AS THIS THIEME



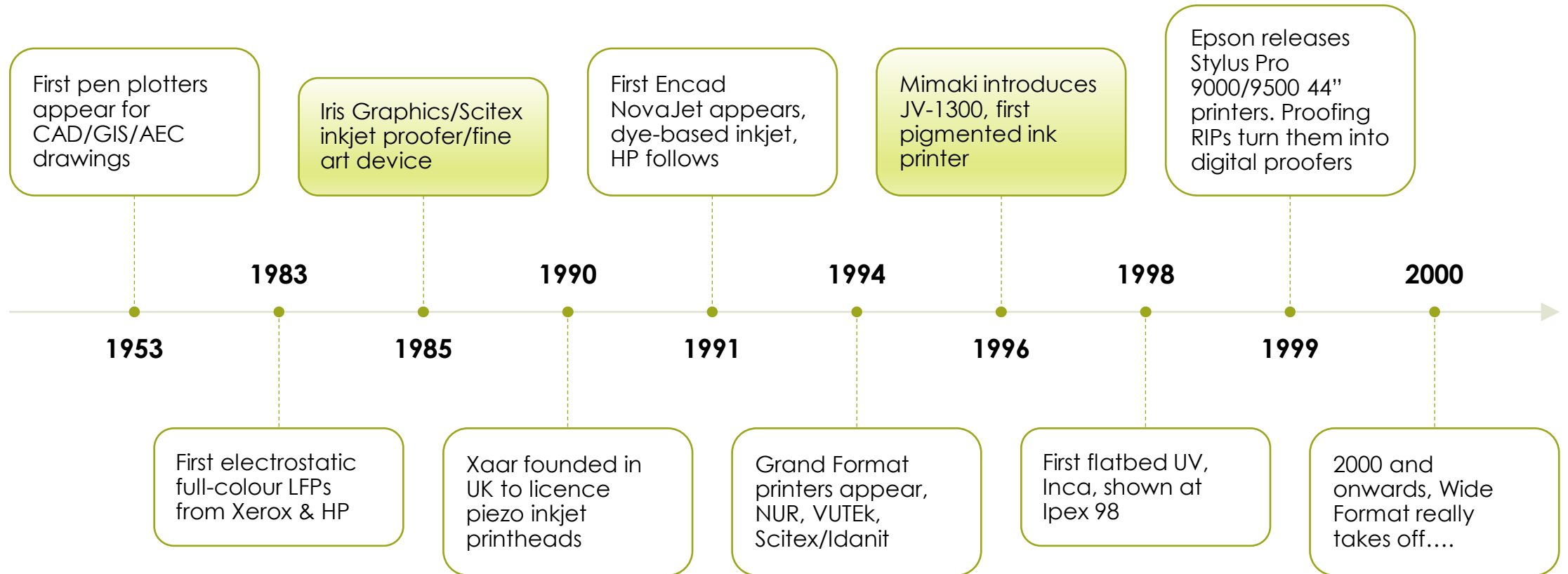


It all started with the Iris...

- Developed 1980s by Iris Graphics in USA as a high-resolution proofing printer
- Bought by Scitex in 1990
- Popularised by Graham Nash of CSN&Y "Nash Editions" – Fine Art
- Continuous flow inkjet, 3pl
- Sheets up to 44" or 1118mm wide
- A version still in production by Kodak

TIMELINE OF DIGITAL WIDE FORMAT

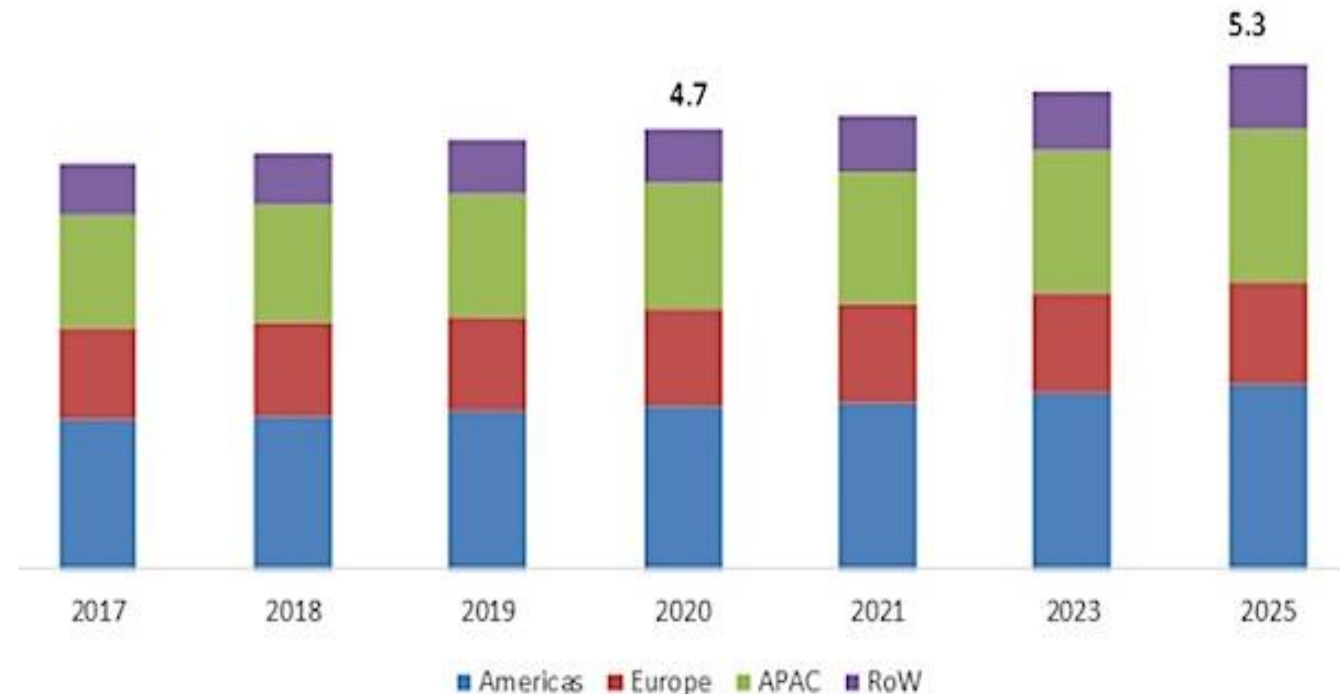
driven by the gradual advancement of the computer peripheral market



Wide Format Globally (source: Markets&Markets report)

- Supply market valued at AUD\$ 14.2 billion by 2025
- Approx. breakdown 1/3 ink, 1/3 substrates, 1/3 machines
- Printed signage approx. AUD\$55 billion by 2024. Digital about 1/2.
- Driving factors: Textiles, DTG, décor, packaging, small batch manufactured goods, Screen print diversion, finishing
- Signage still largest sector
- New markets emerging in manufacturing, non-core print areas

Large Format Printer Market, By Region
(USD Billion)



PLUS WIDE FORMAT FINISHING EQUIPMENT

- Cutters, plotters, routers, roll & flatbed



- Mounters, applicators, laminators



WHAT FORMATS?

- **Roll-to roll**

- Start at 432mm swathe
- Common stages: 610mm, 914mm, 1044mm, 1370mm, 1625mm, 1800mm
- Superwide: 2 mtrs to 5.4 mtrs
- Can be with Aqueous, Latex, Resin, Solvent, Eco-solvent, UV & LED UV curing inks

- **Flatbeds & Hybrids**

- A3, A2+, A1, AO, ++
- Most popular sheet/board size 2440 x 1220mm but up to 3.2 metres available
- LED-UV curing on the increase
- Speeds up to 1,400 sqm/hr
- Increase use of robotics for on-off loading/palletising

DRIVING FORCE - FLEXIBILITY

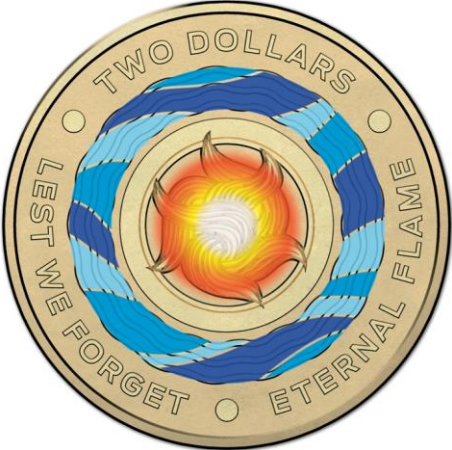
Traditional markets

- Signage, adhesive vinyl, etc
- Vehicle wraps
- Window graphics, one-way
- 'Stickers' print'n cut
- Point-of-sale displays
- Shelf wobblers, coasters etc

Lateral markets

- Textiles, sportswear, T-shirts
- Home and commercial decor
- Product decoration
- Packaging decoration
- Prototyping
- Aid to manufacturing

THINGS YOU MIGHT NOT KNOW WERE PRINTED ON WIDE FORMAT/INKJET DEVICES



CERAMICS AND TEXTILES



Ceramic tiles can be digitally printed with powder, resin or ink and either fired and glazed or just Epoxy-coated for durability. Architectural glass also, eg stained glass replication. 'Etched/frosted) effects can be achieved using films and die-cut.



Textiles can be printed either directly (DTG) – suited to high cotton content, with mid-low permanence or Dye-Sublimation, which is a better and more permanent method for polyester and poly/cotton blends.

T-Shirt, Sportswear & Polo printing: even Amazon does it!



Amazon owns around 5% of Kornit digital textile printers and has committed to buying around \$500 million in equipment and inks over next 5 years.

But anyone can do it for their customers, with the right equipment...for a lot less than \$500 million!

POINT-OF-SALE DISPLAYS IS A BIG ONE



Good POS display units increase sales enormously – brand managers love them. Higher volumes still printed offset & die-cut by stamping but increasingly digital wide format is used with a CNC cutter.



PRINTING IS NO LONGER DEFINED AS INK-ON-PAPER IT'S PRINT-ON-ANYTHING!

“This machine will allow us to print on almost anything”

Justin Earl MD of Chroma, a UK offset printer who put first Flatbed UV printer in last month.



Thank you!