Packaging Design and Innovative Process
Help Brands to apply the Dopamine Color Effect

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Managing Director of CGS ORIS





CGS ORIS and myself....

- CGS ORIS is in the market for more than 35 years
- All related to
- Myself....





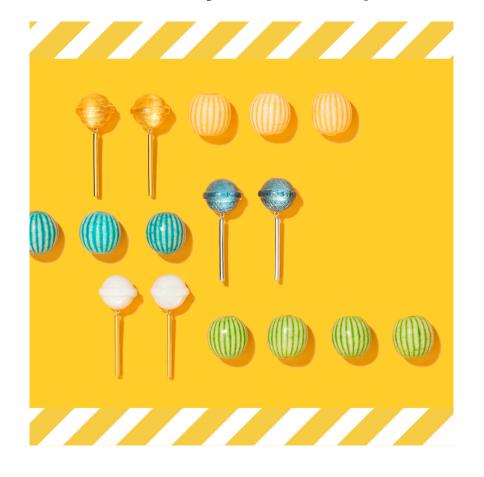
- Bright, bold colours such as red, yellow and orange are known to be particularly effective at stimulating dopamine release. These colours are associated with positive emotions such as joy, excitement and happiness, and they can help to boost our mood and motivation.
- The simplest explanation of dopamine is that it is "a chemical released in the brain that makes you feel good". Having the right amount of dopamine is important both for your body and your brain. Dopamine helps nerve cells to send messages to each other. It's produced by a group of nerve cells in the middle of the brain and sends out messages to other parts of the brain.

Source: https://www.healthdirect.gov.au/dopamine#



Do you like Dopamine and Dopamine Colors?

I am sure you like dopamine!







Brand owners like to use dopamine colors

• Many brand owners know that consumers like dopamine colors and take advantage...







Stimulate consumers with color and emotion

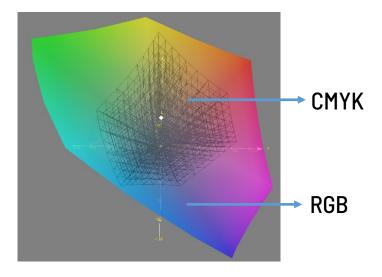


Print easily or not?

- Can you print these packages easily as a printing provider?
 - Every job is only 500 pieces
 - Several different designs for 1 product
 - Every design has different spot colors
- Work hard but can't make money!





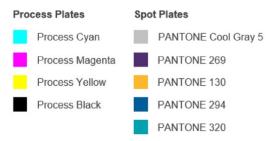




ECG Printing: Extended Color Gamut Printing

Traditional (CMYK + Spots)





ECG (CMYKOGV)







Image source: vecteezy.com





 Jobs: 7 different designs, each with 2 spot colors. Traditional (CMYK+spots)

> Plates: 42 pieces

Downtime: 7

> IFS spot colors: 14 pieces

Wash and change ink: 14

Working time: Long

Labor cost: high

ECG (CMYKOGV)

Plates: 7 pieces

Downtime: 1

> IFS spot colors: 0

Wash and change ink: 0

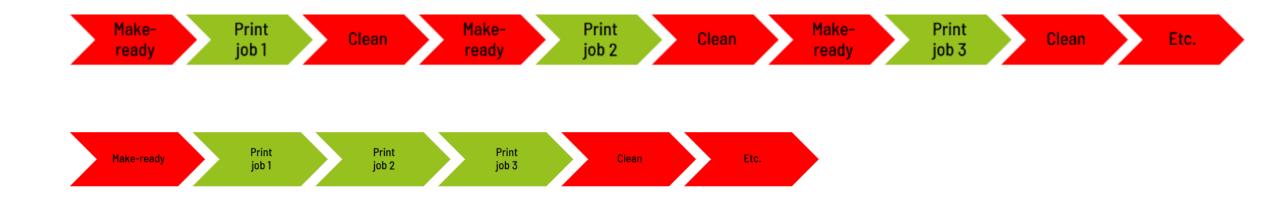
Working time: short

Labor cost: low

> Faster delivery

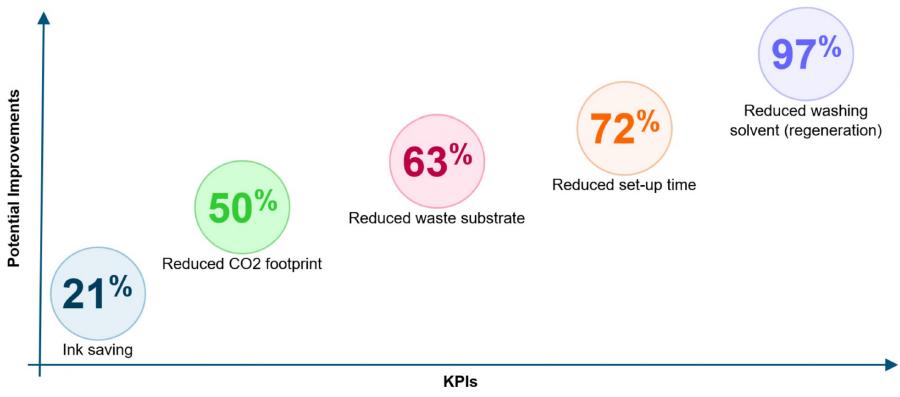
➤ Make more money!







Compare of ECG 7 color printing and CMYK + 3 spot colors printing



Source: Evaluation of Expanded Gamut Printing in Flexography)
For a wide-web flexographic process with assumption of 50 million meters annual production (3,333 print-jobs), material width of 100cm

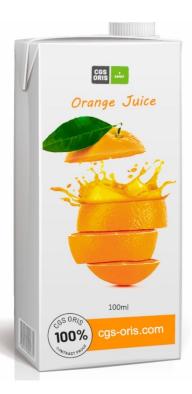


And the printing quality will be much better on images





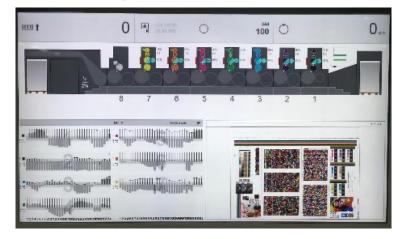






ZRP GROUP (Zhongshan)





















- Dongguan Yinxin Many spot colors in one job
- They have 8-color press but spot colors are usually more than 8!



















 94% spot colors in Pantone Coated V4 (except fluorescent and metallic colors) are in the gamut of CMYKOGV (Dongguan Yinxin's ECG printing gamut)

Pantone solid coated V4-M1色库覆盖情况				
dE2000<1	1 <de2000<2.5< td=""><td>2.5<de2000<5< td=""><td>dE2000>5</td><td>总计</td></de2000<5<></td></de2000<2.5<>	2.5 <de2000<5< td=""><td>dE2000>5</td><td>总计</td></de2000<5<>	dE2000>5	总计
1753	264	121	8	2147
81.7%	12.3%	5.6%	0.4%	



RGB images got much better quality

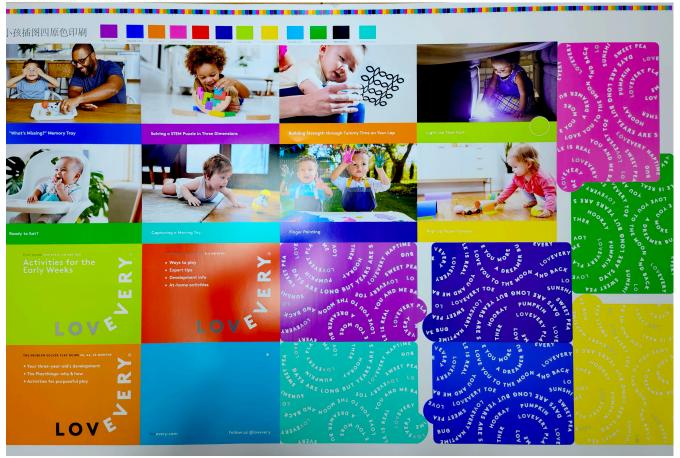








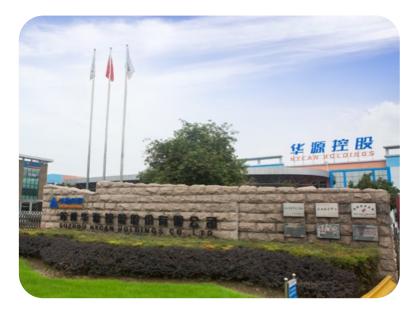
- RGB images better quality
- 12 spot colors ONE print on Heidelberg XL105 8P





- HYCAN Holdings
- Offset, metal printing KBA 7-color press
- Challenge: small orders, variety of packaging design









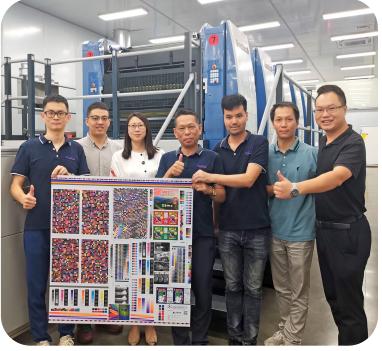


- Put different layouts on one press sheet
- ECG Printing: CMYKOV+White





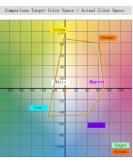


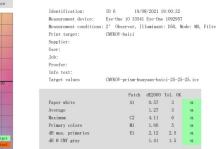




- One Print: 17 spot colors and RGB images
- keep color consistent between digital proofing (by CGS + Epson S80600) and press













- ECG Printing by the 1st KBA Metal Star 3 (10 Colors)
- 3-piece Can, main product is milk powder can.
- They convert RGB to CMYKOGV. Multichannel printing is the main competency against the competition.

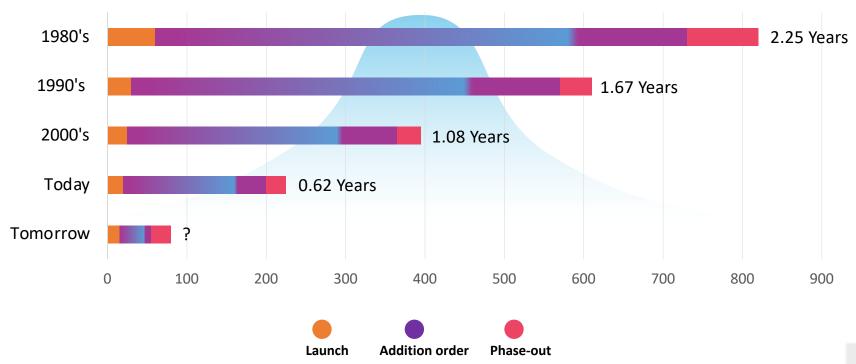








PLC (product life cycle) is changing...



• Source: Colgate-Palmolive business analysis



Proofing and Prototyping cost is much higher!

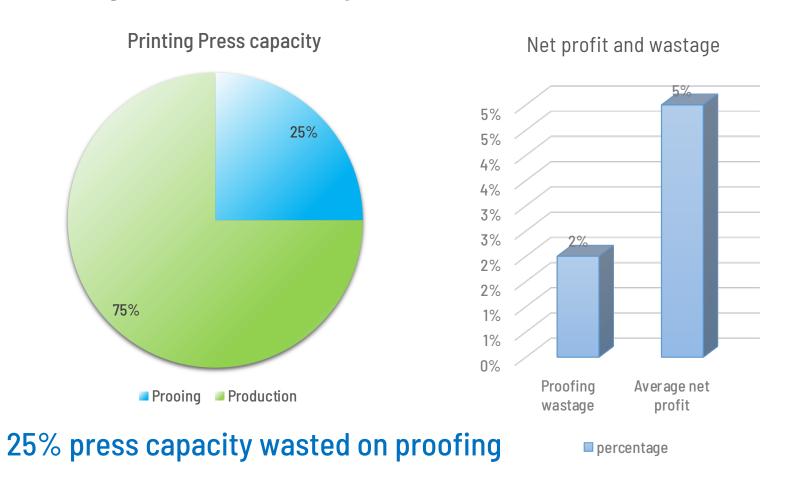
- SKU's (stock keeping units)
- Short run
- Shorter PLC
- More and more proofing and communication
- Many printers spent millions on proofing (on press)







Heidelberg did the industry statistics:





You can use digital prototyping solutions

- Direct printing on real materials
- Match colors by FlexPack
- Printing by Mutoh or Roland printers





• Almost the same with the proofing on press

Proofing on press

Real materials

Color consistent

Same finishing

mock up

Spend much time and cost

Delivery Time: 5-7 days

Proofing time: average 3 hours

Cost: average 400+ Euro every time



CGS proofing solution

Real materials

Color consistent

Similar finishing

mock up

Save time and cost

Delivery time: 1day

Time: minutes or 1 hour

Cost: several Euro



Many printers save millions money every year!

















































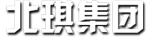














Even metal printing enterprises



























METALLVERPACKUNGEN











Even more: Fashion, sports & home decoration













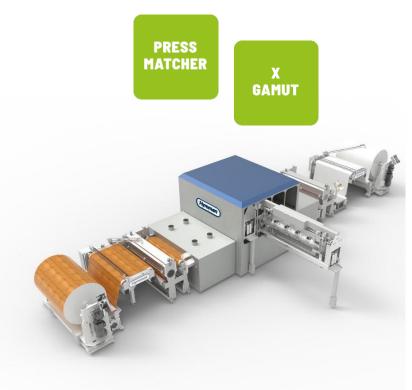




Predictable, accurate and repeatable color across the entire production fleet...

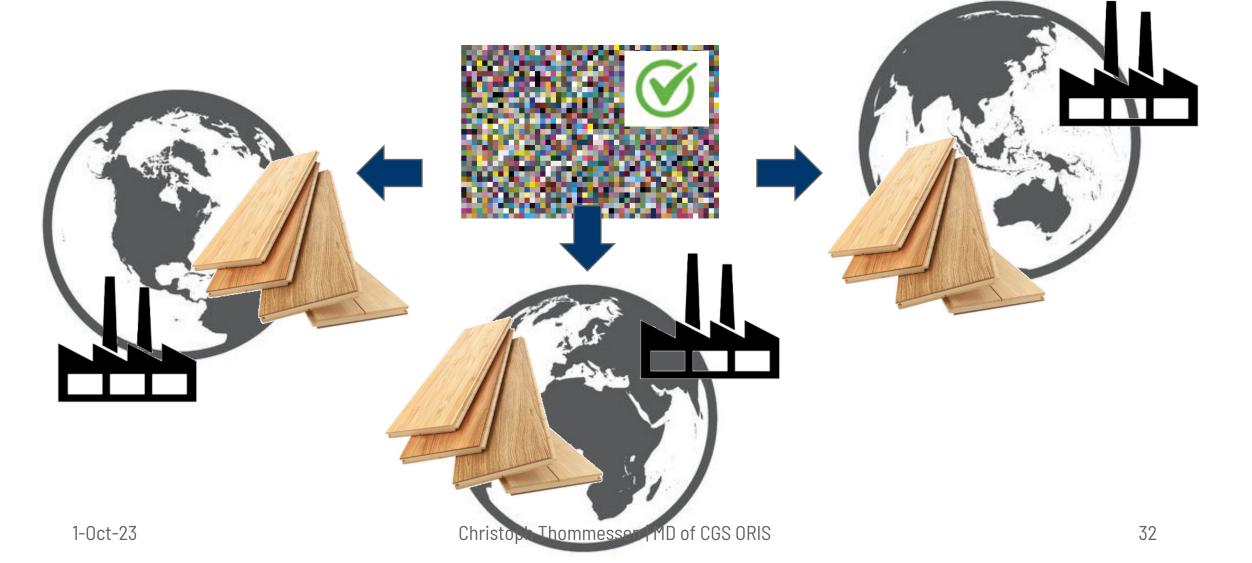
Color consistent on different machines





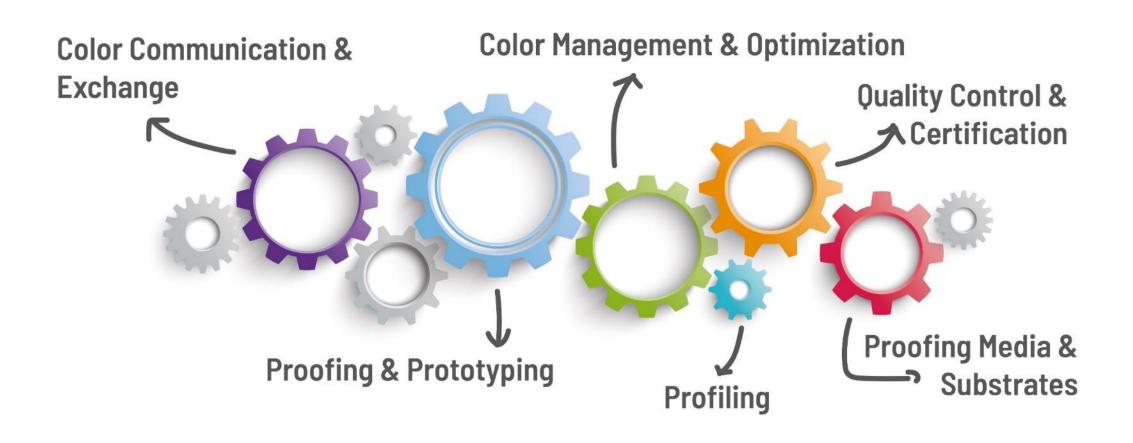


... over time and location





CGS Solutions - Release your Dopamine!!





color your process

