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# Prinect Multicolor

Simulating spot colors



# Workshop no. 16 – Prinect Multicolor: Simulating spot colors

## Presentation

*Cordula Voelker*

## Prinect Cockpit

*Moana Diehl*

## Speedmaster XL 75-8-P

*Roland Schönmann*

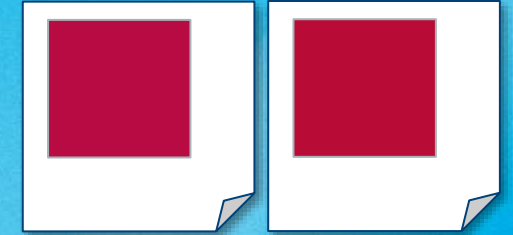
*Mustafa Elshakarji*

# Prinect Multicolor - Simulating spot colors



1. How good is color quality with Prinect Multicolor?

Printing with XL 75-8-P



2. How 7 separations are generated

Prinect workflow used for Multicolor



3. What about profitability?

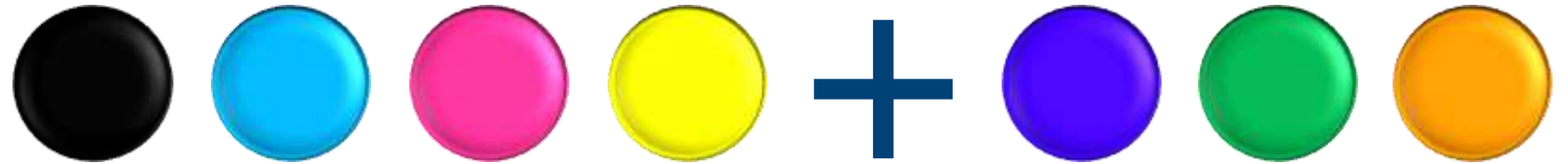
Savings with Prinect Multicolor





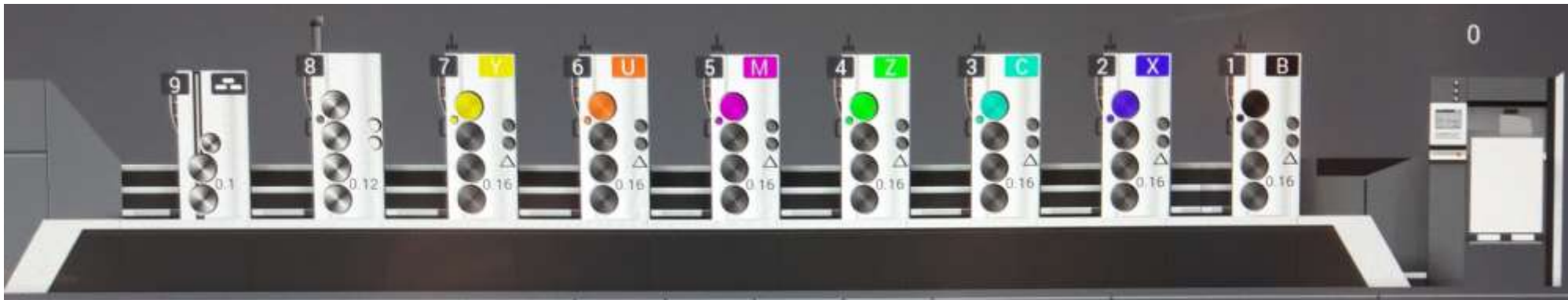
# Prinect Multicolor - What is it?

Printing with 7 inks



→ Process colors BCMY + spot colors violet, green and orange.

→ Simulating a huge amount of other spot colors



# Printing with spot colors - the daily challenge



## Printing with a high number of spot colors:

→ Time consuming process:

Wash-up of spot color ink units

→ Complex handling:

Processing and storage of spot colors

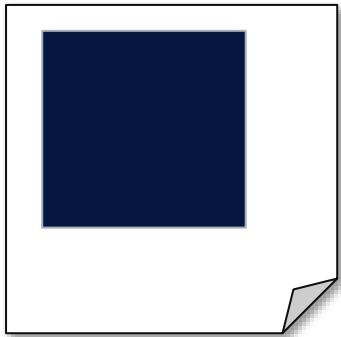




# Prinect Multicolor - What about color quality?

Printed with one spot color

100  
%

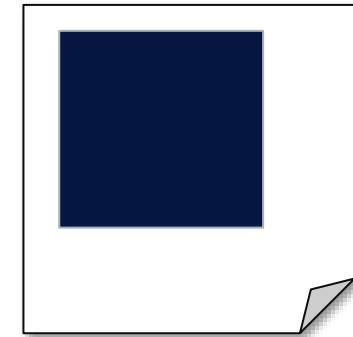
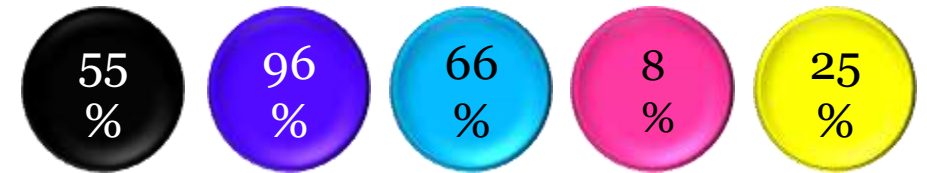


Pantone® color



$\Delta E = ?$

Printed with Multicolor separation





# Print form 1 „Passion“



1<sup>st</sup> spot color



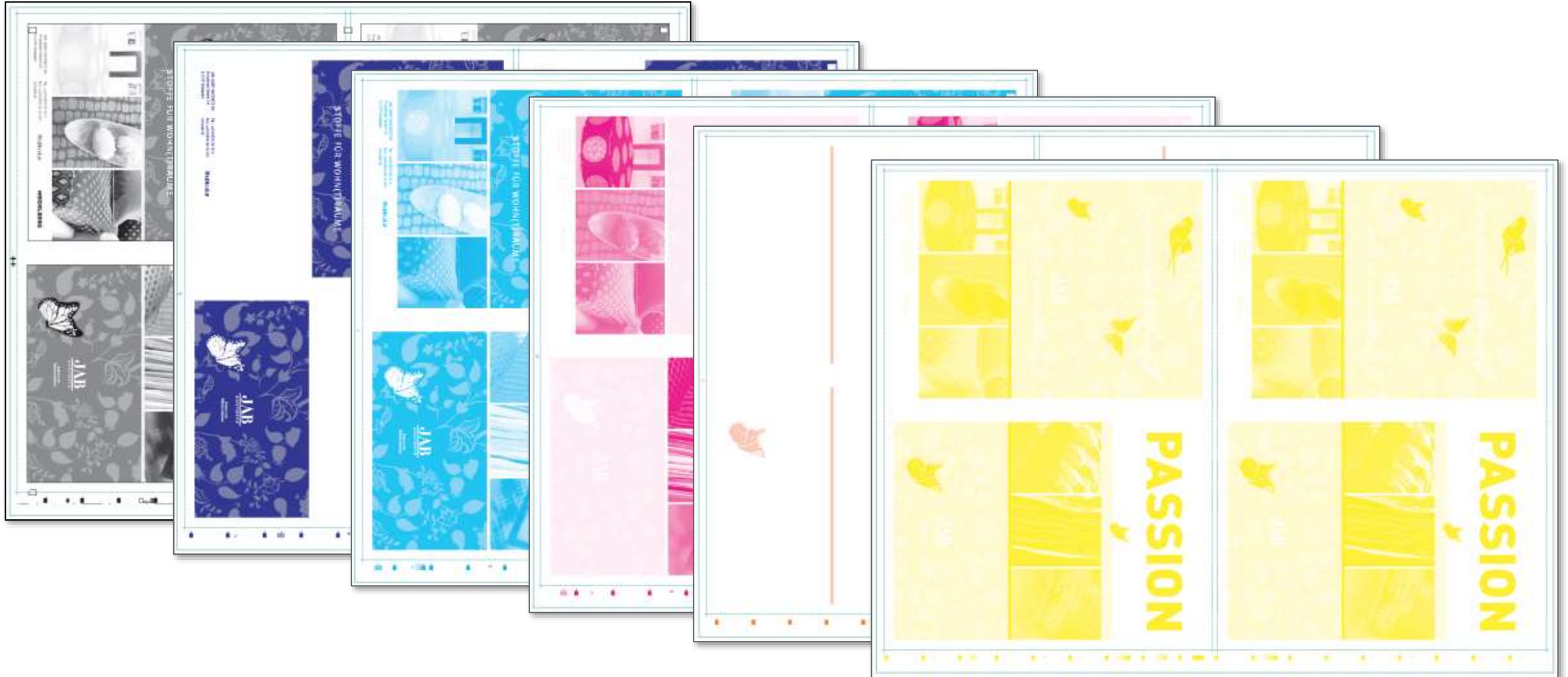
2<sup>nd</sup> spot color





# Print form 1 „Passion“

6 separations for printing with Multicolor



# Benefits of Printing with Prinect Multicolor



No ink change



No washing times

Standardized color workflow



No time consuming make ready

Color measuring and controlling



Automatically and inline with Prinect Inpress Control

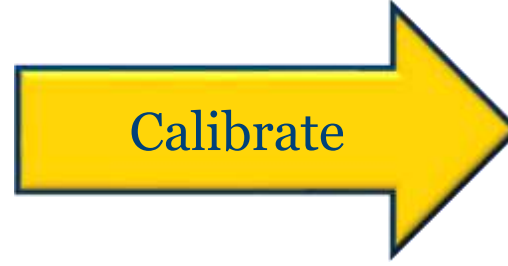


# Color Management for Prinect Multicolor

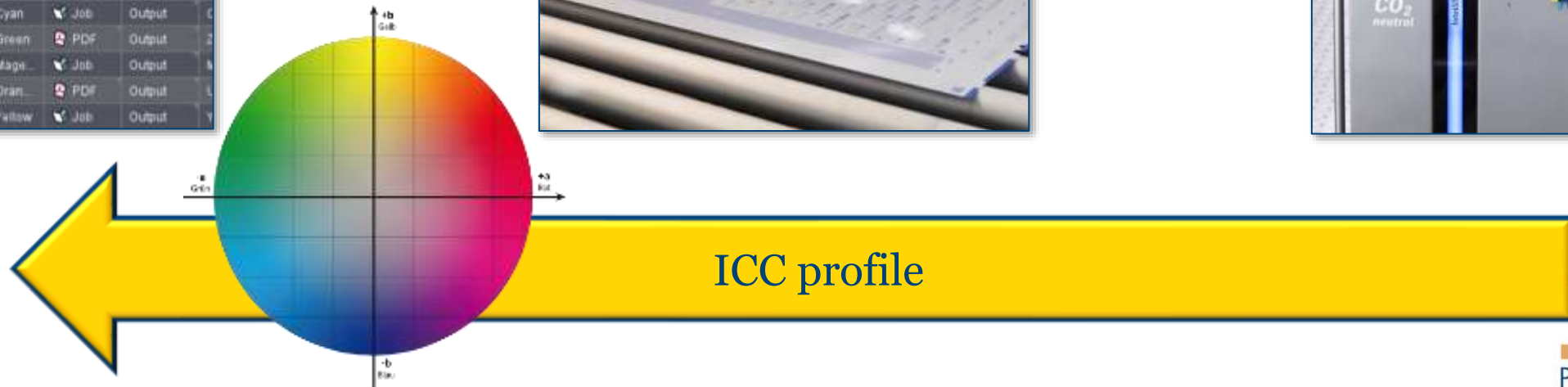
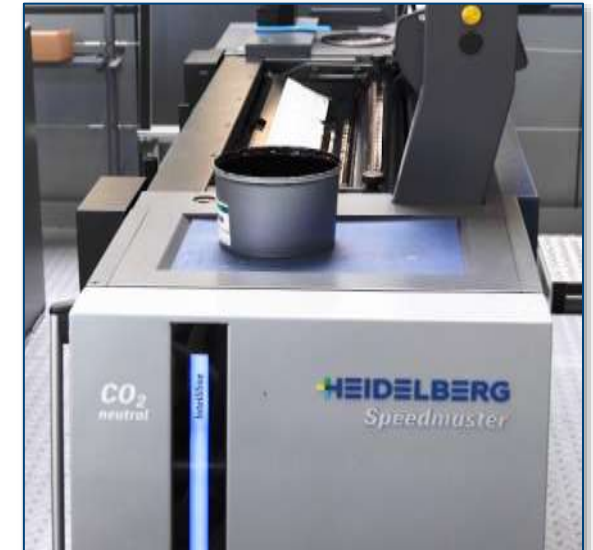
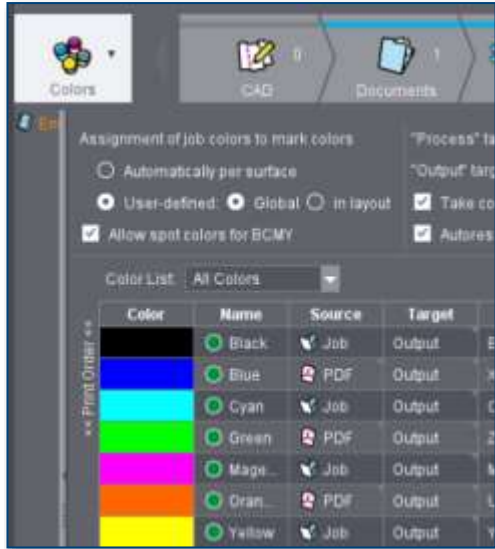
Prepress



Plate setter

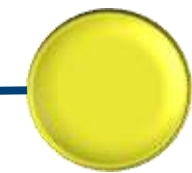
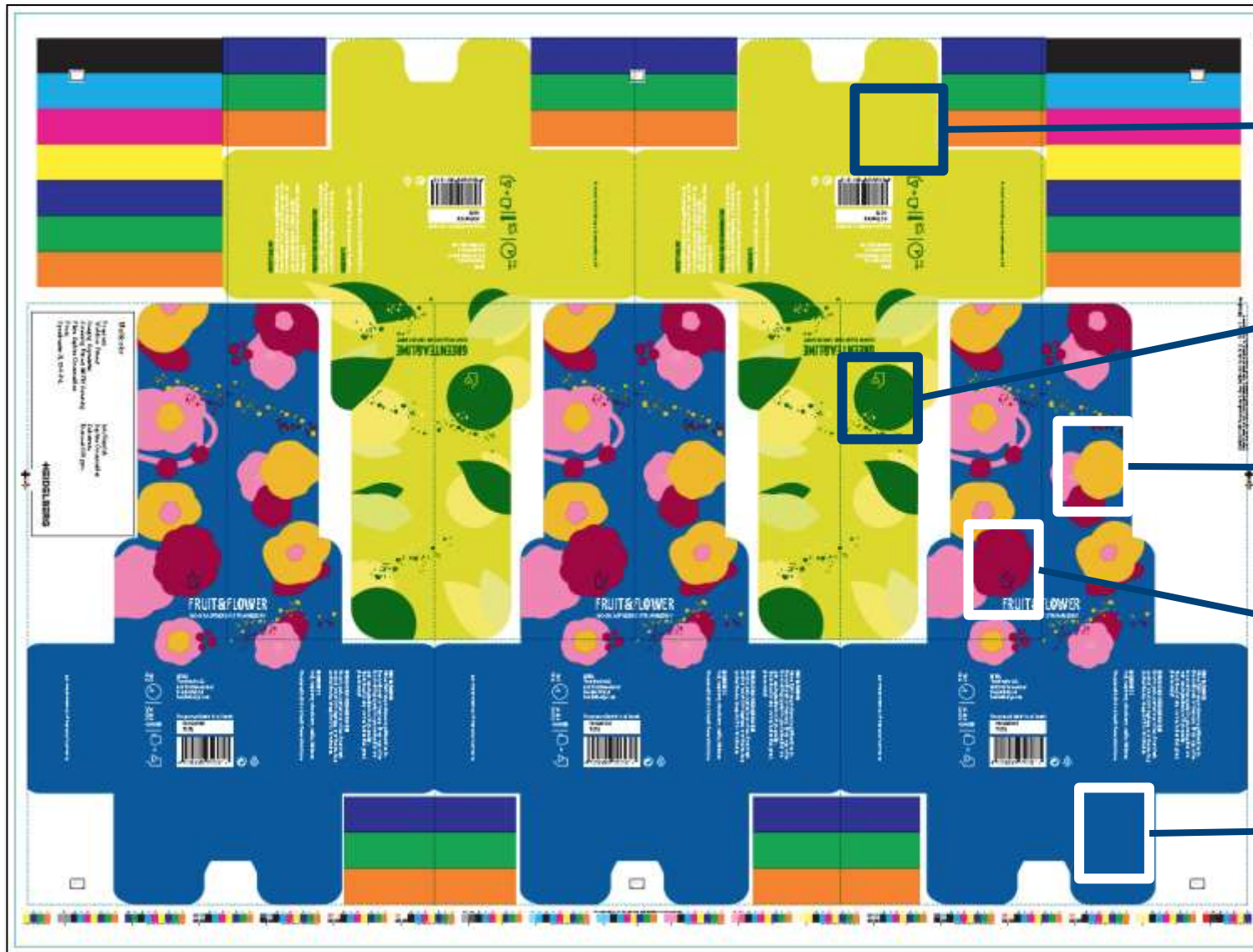


Press

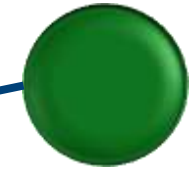




# Print form 2 „Lotea“



1<sup>st</sup> spot color



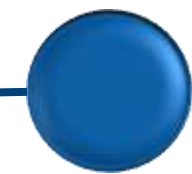
2<sup>nd</sup> spot color



3<sup>rd</sup> spot color



4<sup>th</sup> spot color



5<sup>th</sup> spot color



# Print form 2 „Lotea“

7 separations for printing with Multicolor



# Multicolor Workflow



## Prinect Production



Version 2021

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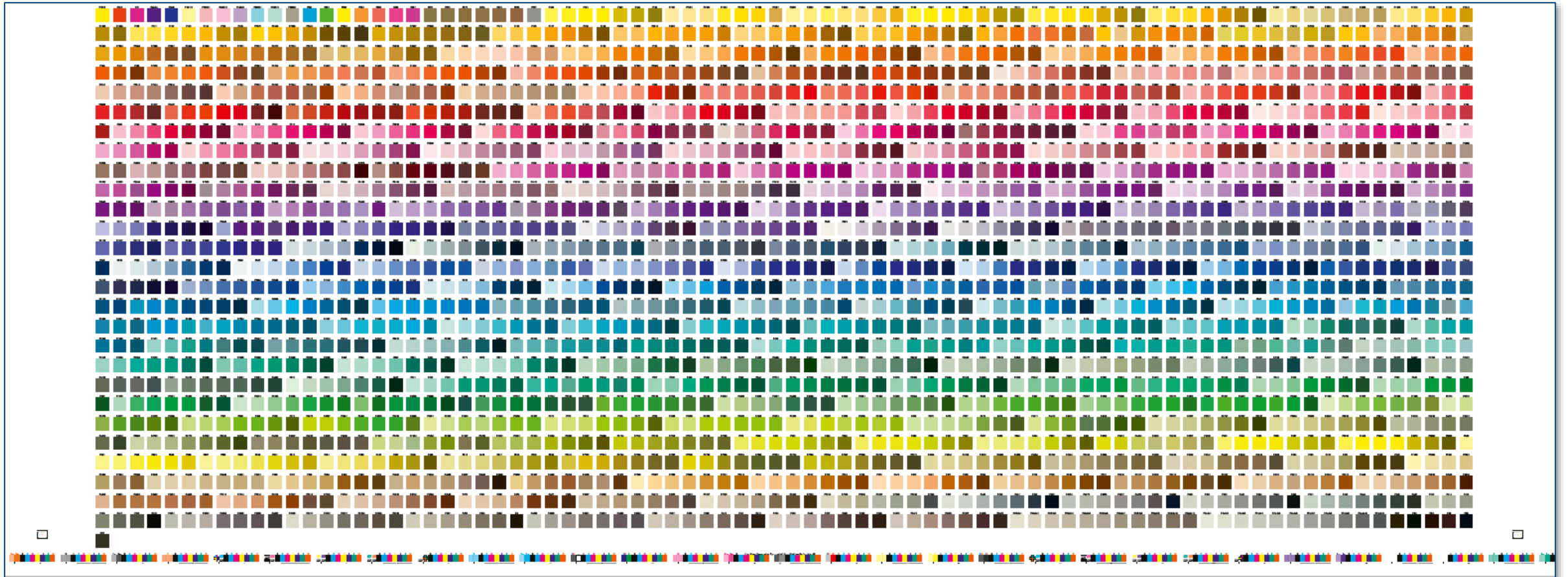


**HEIDELBERG**



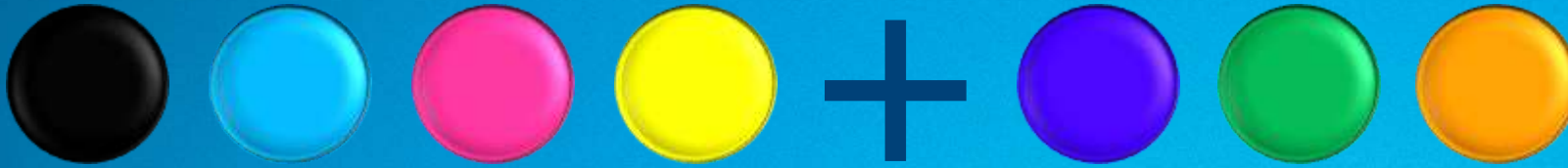
# How good is color quality with Prinect Multicolor?

Simulation of color fan Pantone® solid coated V4: **2161** colors





# Simulating Spot Colors with Prinect Multicolor



## 2161 colors

### 94 % $\leq \Delta E 3$

### 98 % $\leq \Delta E 5$

simulated PANTONE® 3165_C	27,67	-30,2	-16,27	0,26
simulated PANTONE® 7709_C	67,26	-23,4	-14,26	1,33
simulated PANTONE® 7710_C	61,09	-36	-20,41	1,49
simulated PANTONE® 7711_C	54,02	-44,06	-24,32	0,93
simulated PANTONE® 7712_C	47,6	-40,32	-26,36	0,95
simulated PANTONE® 7713_C	44,43	-41,72	-21,11	0,81
simulated PANTONE® 7714_C	42,37	-39,52	-18,06	0,77
simulated PANTONE® 7715_C	35,4	-31,63	-14,41	0,43
simulated PANTONE® 2218_C	67,5	-18,11	-14,7	1,68
simulated PANTONE® 2219_C	62,57	-20,06	-16,64	1,20
simulated PANTONE® 2220_C	57,43	-21,46	-18,44	1,29
number of colors				$\Delta E 2000$
< dE 3.0				2022
< dE 5.0				2128
				93,6%
				98,5%





# Use Cases for Prinect Multicolor

## Packaging and Label

Multicolor replaces spot colors

→ Print economically!

## Short Runs

Multicolor enables ganging

→ Print short runs with spot colors economically!



# Savings with Multicolor Printing

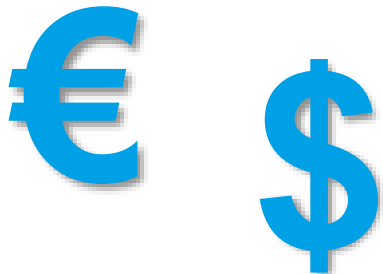
## Reduce make ready costs

- 1 press filled with Multicolor jobs
- no wash-up of inking units



## Example

- XL 106 at 250 €/hour
- 30 jobs/day (20 days/month)
- **5** minutes less wash-up per job
- Savings per month = **60 h** or **12.600 €**



# Benefits with Prinect Multicolor



→ Less wash-up times:

→ Reduced makeready waste:

→ Repeatable print quality:

→ Reduced ink inventory:

No ink change

Stable color control

Standardized Multicolor process

Only 7 inks





# Workshop no. 19 - Prinect Multicolor for Experts

## 2. Conditions for Prinect Multicolor Color management

## 3. Expert level news

InRip color management – ROOM Proof – mixed rendering - mixed screening

# Prinect Multicolor with Heidelberg



Seven - color offset printing process

Heidelberg is your full end to end solution provider



# Prinect Multicolor

Simulating spot colors