

# Industry Update

**Presented by: David Hunter** 

# **New Activities in Industry**

### **PPC- Print Properties Committee**

- UV Data set
- ECG Project
- Universal Data Set
- ◆ G7+

#### **Fogra Meetings**

Score Card Project

### **UV** Dataset

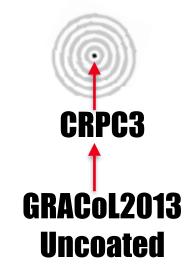
- Available in Beta now for testing
- Accommodates Larger Gamut for UNC Printing

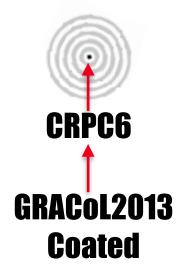


# What Target are you aiming for?

What substrate are you printing on...

#### **Uncoated References**





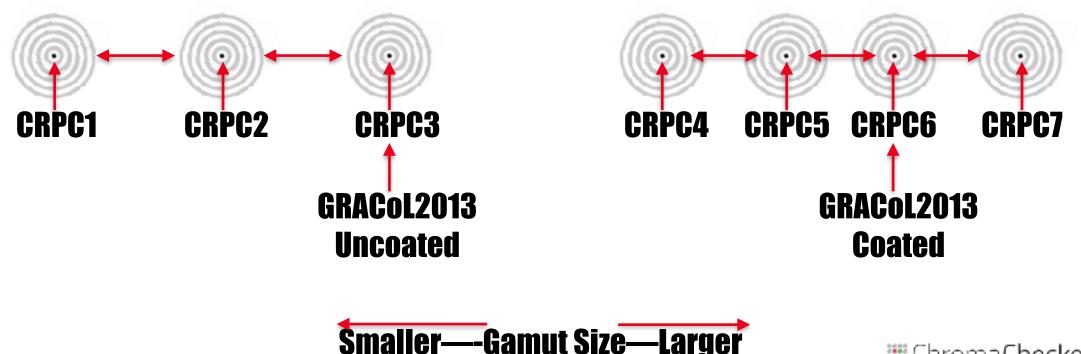




# What Target are you aiming for? ISO 15339

What substrate are you printing on...

#### **Uncoated References**

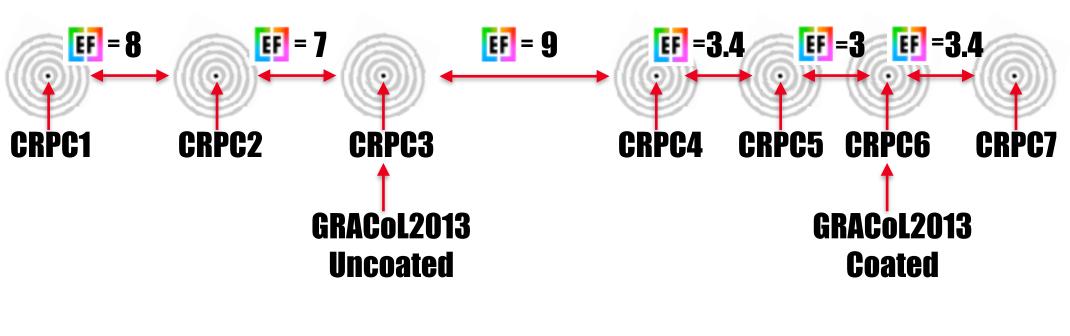




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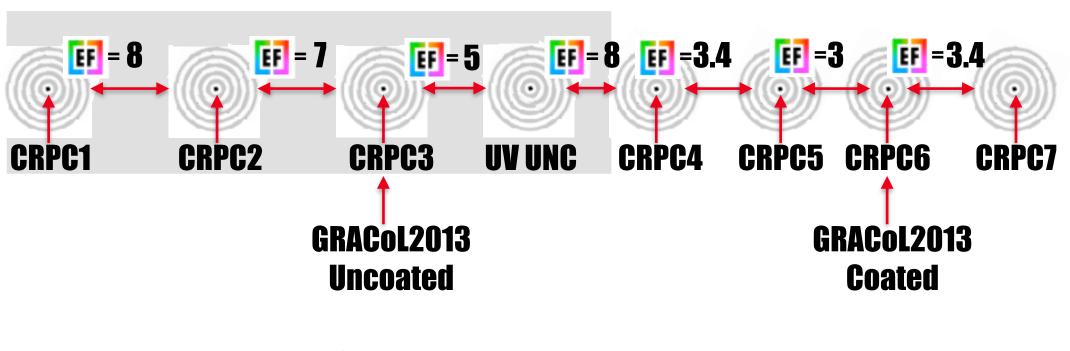




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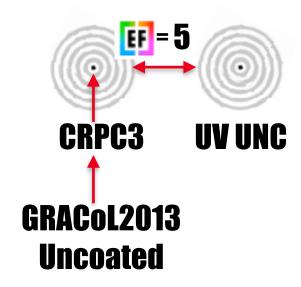




# What Target are you aiming for?

What substrate are you printing on...

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41%+ Larger Gamut
per ISO Gamut Calc





# Where are We in the process

# Multiple of Actual Press Runs



# **ECG Project**

#### Reference Aim Profile for ECG

- Needs to have GRACoL2013 as base CMYK
- Needs the OGV inks with SCTV at correct Hue Angles

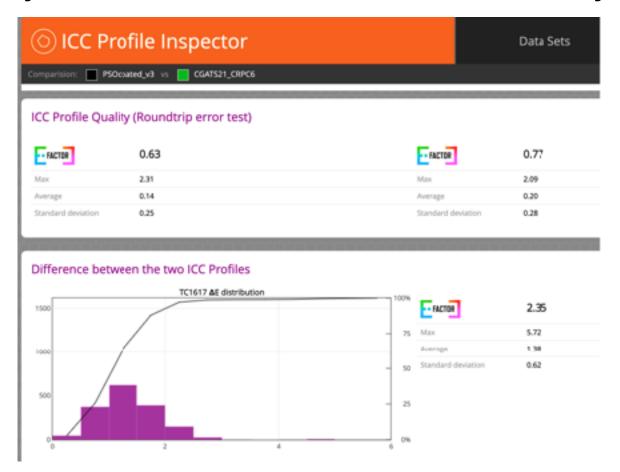
- Challenge
- New Universal Data Set as the base



### **Universal Data Set**

### ISO Coated- Europe, Africa — GRACoL- NA

They are different... Not much, but they are...





### **Universal Data Set- ISO UDS-1**

### Aligning PSO Coated, and GRACoL2013

- Result will be different, but very similar...
- Has not been released for Beta yet, still Alpha stage

### What is G7+

#### Brand New- still not finalized

- New Curve algorithm
- Has not been released to any developers yet
- This is preliminary information shared with PPC last week

# G7+ design goals



- Don't rock the G7 boat
   Maintain G7 appearance and benefits
- Optimize low-DR tonality
- More natural gray balance
- Eliminate SCCA vulnerability
- Solve high-density banding
- Support proposed ISO UCD1
   Unified Characterization Dataset to replace fogra and GRACoL



# Impact on G7 users



- Little or no visible change on typical commercial stock LEGACY G7 FILES SHOULDN'T NEED REPLACING
- Need new calibration & verification tools
- New process control & QC aims





### **What About Score Cards**

### Score Cards don't predict level of Color Match

- 5 points for each primary within 3 delta E
- 5 points for each TVI with 3% of target, 3 points if 5%
- 5 points for each gray within 3 ΔCh of target
- 85 points-Good Match? Doesn't compensate expectation
- Doesn't Relate to Visual color match- 87 score not necessarily closer match 82, Can't be used to compare...



# **Actual Situation with Bodoni and ColorCert**

# Two Printers printing same job, Bodoni, ColorCert

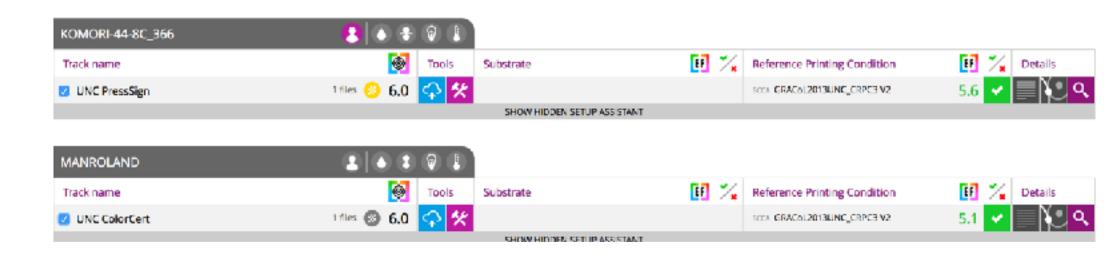
- Both passed G7 Compliance
- Both had passing scores: 84 and 86
- Customer Rejected Prints- They didn't match expectation
- Printer gave me measurement data, different color bars
- Imported in ChromaChecker, both passed G7
- Compared each print to one another= 7.2 E-Factor



# **Actual Situation with Bodoni and ColorCert**

# Compared same job from two different press runs-

- PressSign score= 86
- ColorCert score = 84 lower score: but actually closer...

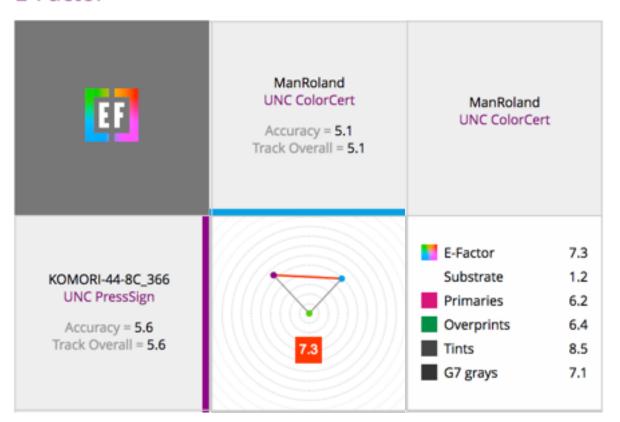


### **Actual Situation with Bodoni and ColorCert**

# Compared Prints from two press runs- Unaccepted

■ 7.3 E-Factor Difference, Magenta Solid 6.2 ΔE different

#### E-Factor



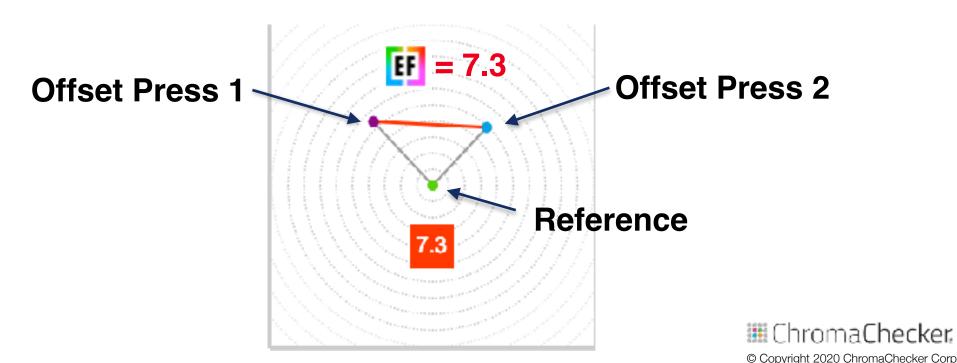


# Scenario Proves G7 & Score Card Need



### Compare Prints to Reference- one thing

- Compare prints to one another, completely separate eval
- Opposite sides of bulls eye, theoretically could have been 10.7 E-Factor to one another, worst case scenario



# Summary: E-Factor- Visual Score Card



#### Defines if Print is Salable- ONE NUMBER

- Makes easy operator, management, customer, sales
- Know instantly if print is salable
- Complements G7 compliance- adds Color Match
  - E-Factor is in G7 Color Space Criteria definition
- Create manager production & customer Job reports
  - Provides KPI (Key Performance Indicators)



# Potential ChromaChecker Certification Project

#### Idealliance: G7 Qualification not Certification

- Printer can print G7:
  - One time, One Year, One Press, with G7 Expert present
- No distinction related to printer quality
- No distinction for multiple presses

Brain Storm about a Near Neutral Print Provider Certification

