Agfa Industrial Workflow 4.0

From Toast to Laminate

Zagreb – 26 October 2021

Mike Horsten

Global Business Manager InterioJet



** **

Who is: The Agfa-Gevaert Group

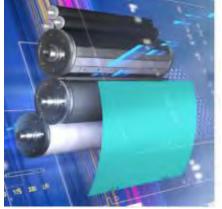
Agfa Worldwide



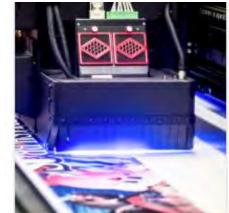
- HQ in Antwerp, Belgium
- 7,500 employees worldwide
- Offices in more than 40 countries
- 25 R&D and production sites around the world
- Global market leader



The Agfa-Gevaert Group



Offset Printing



Inkjet Printing



Radiology Imaging



HealthCare IT



Industrial



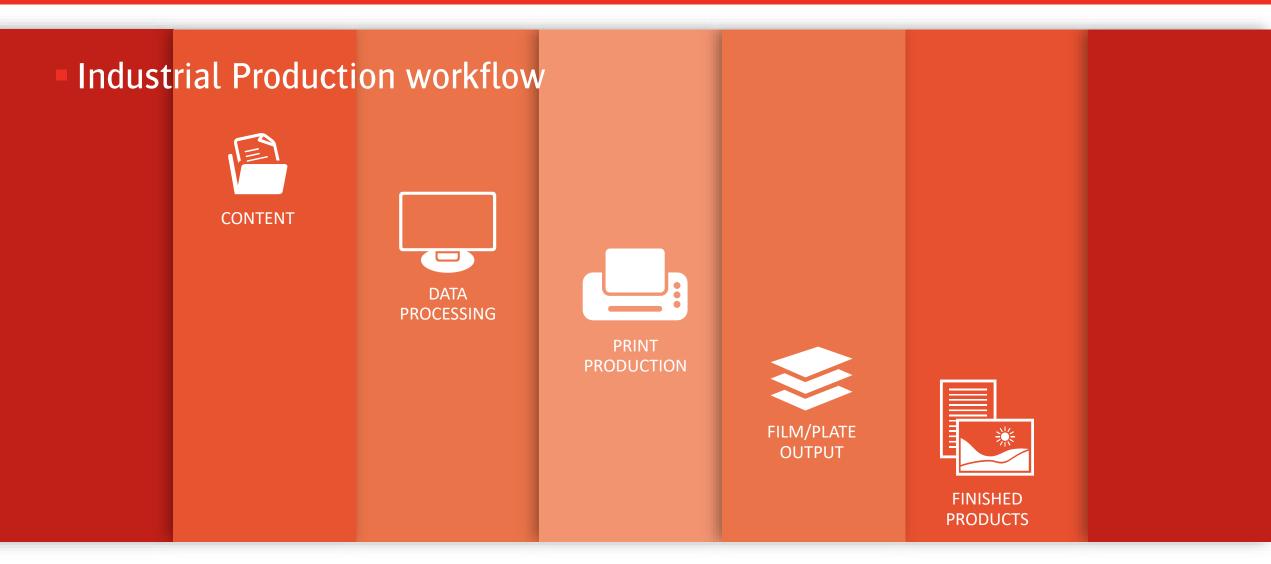
Fun facts...

More than 150 years of imaging expertise

Co-founder of the PDF/JDF industry standard

Majority of the world's value papers (passports) are designed with Agfa's security software

Agfa Industrial WorkFlow 4.0





Agfa Industrial WorkFlow 4.0

Lets make some Toast first





Easy right?



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• Well we need to know what we want first!







Well we need to know what we want first!

Hawai toast ->>





• Well we need to know what we want first!

Italian toast ->>





• Well we need to know what we want first!

Cinnemon Toast ->>











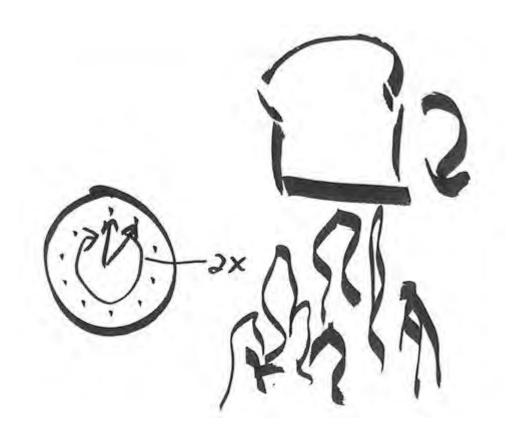
So, let's keep it simple

Lets make : Butter and Jam! Toast



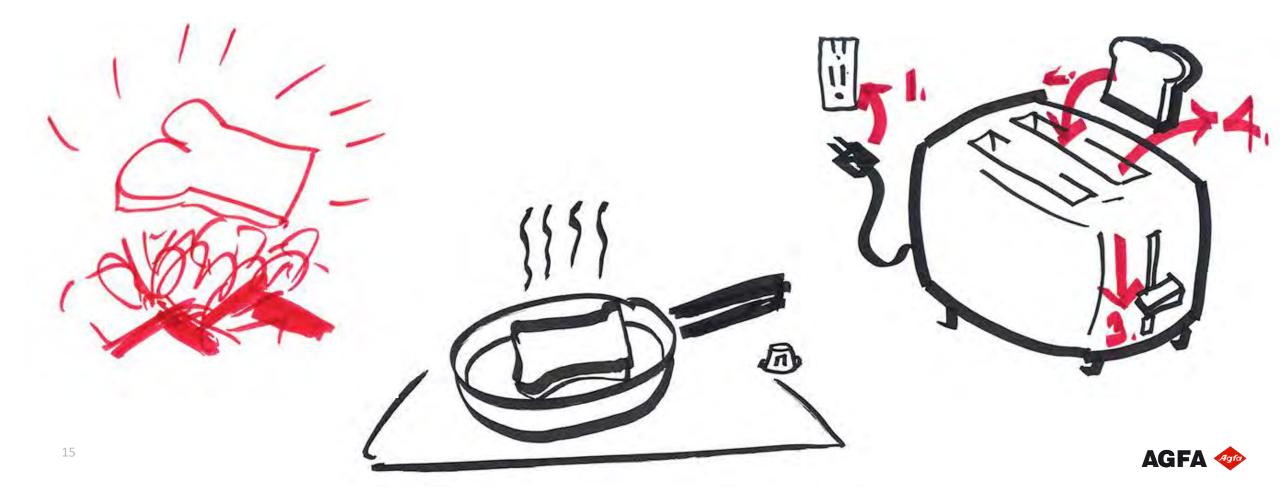


So I asked a group of people like you to help me.

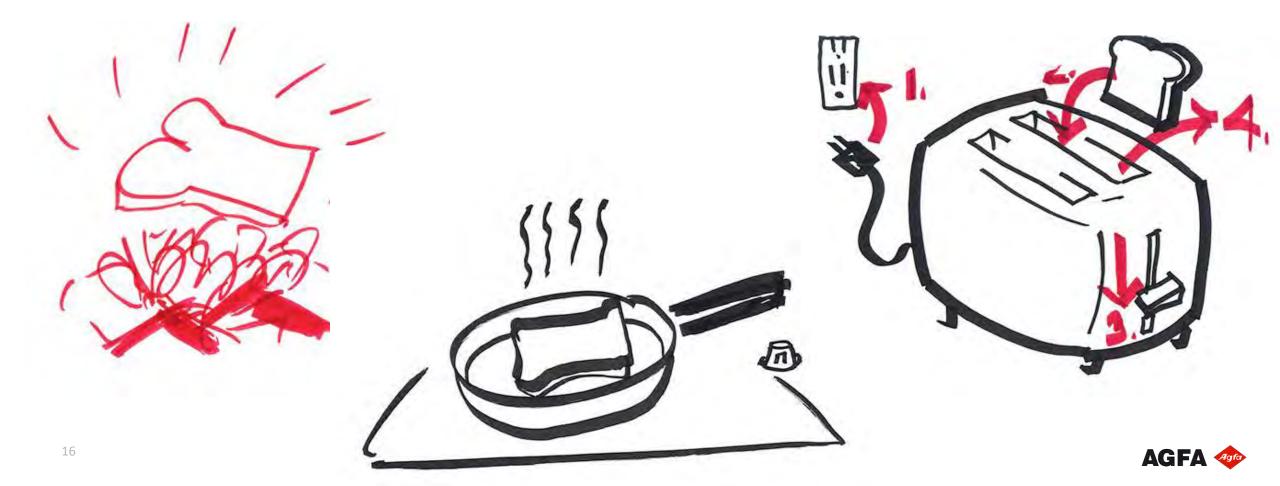




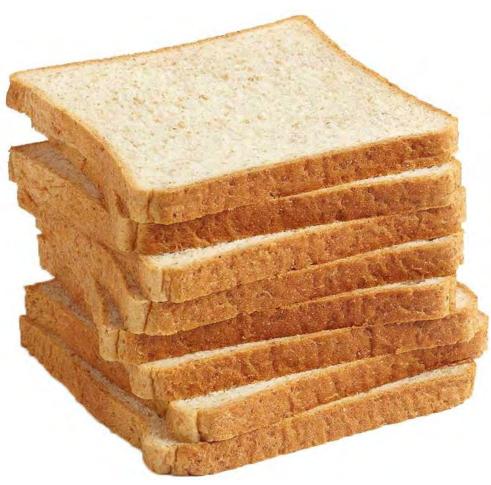
First how do we make toast?



First how do we make toast?

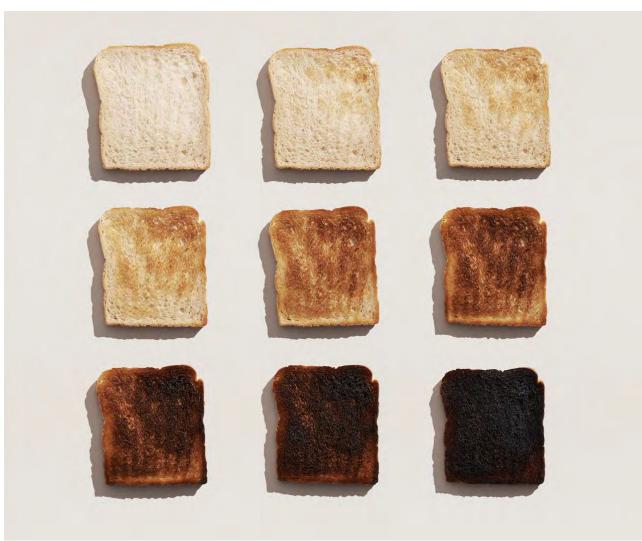


What are our starting points





Quality control





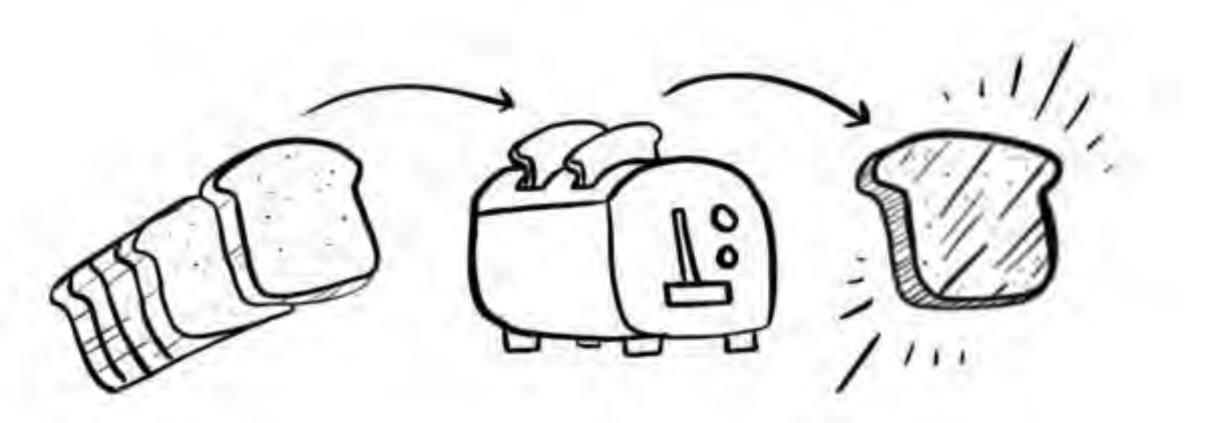
Presentation





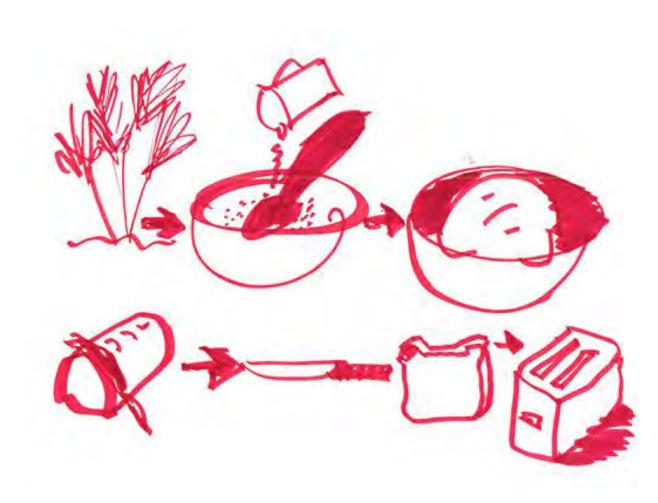


OK Lets make toast



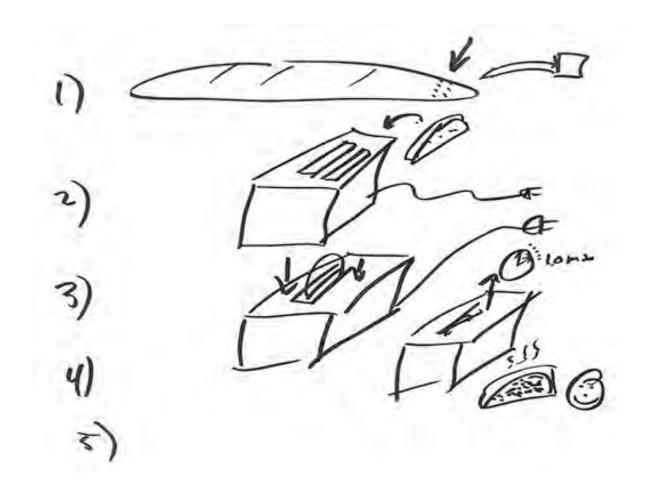


From A to Z



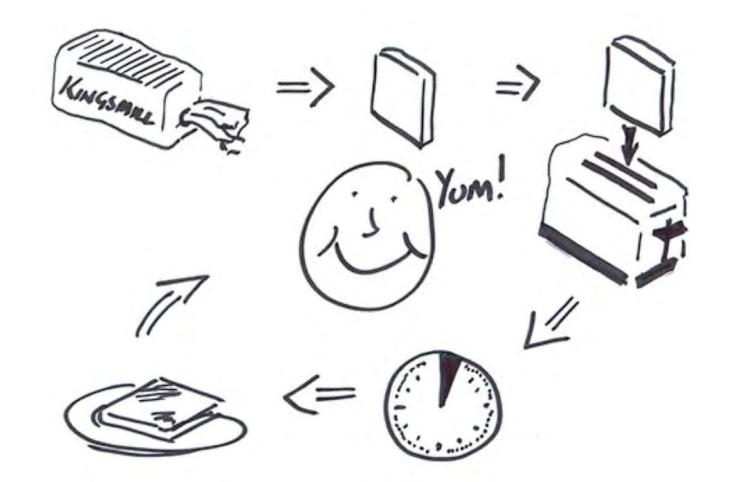


Cultural

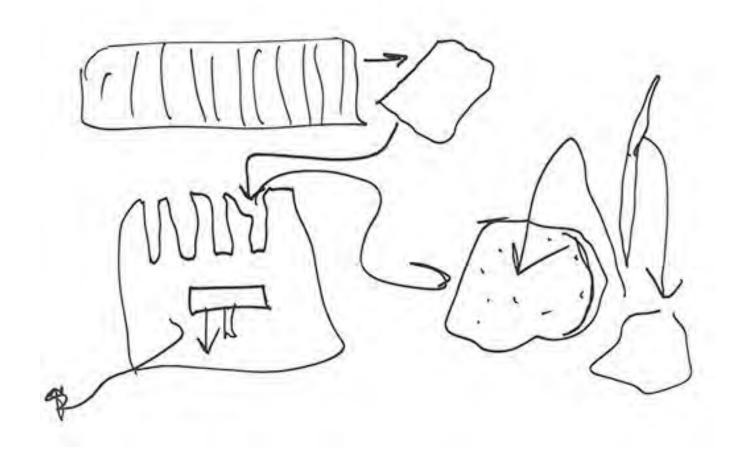




Round happy man

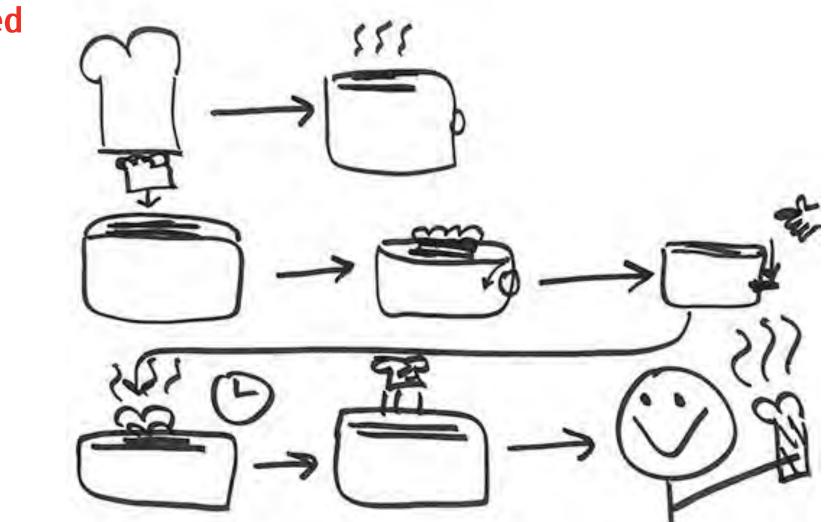


Questionable

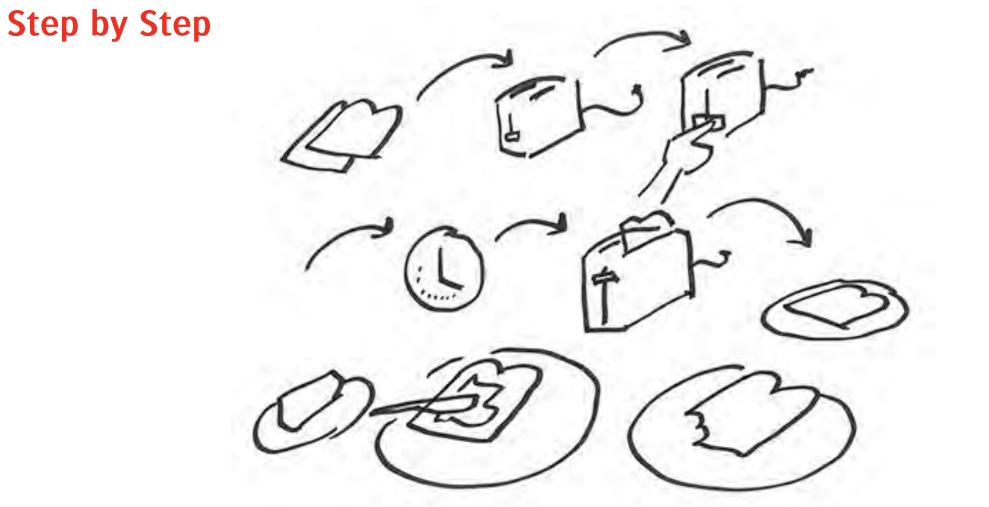


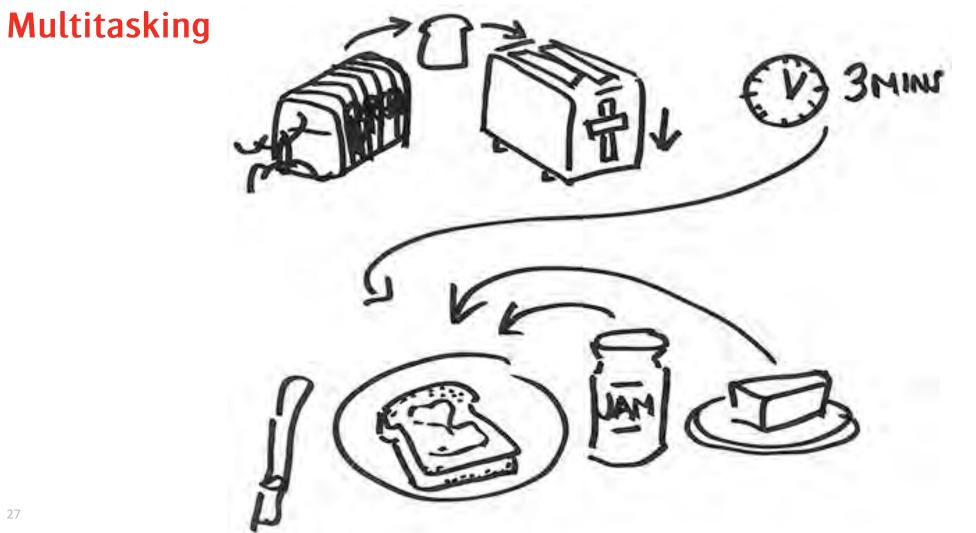


AGFA 🛷

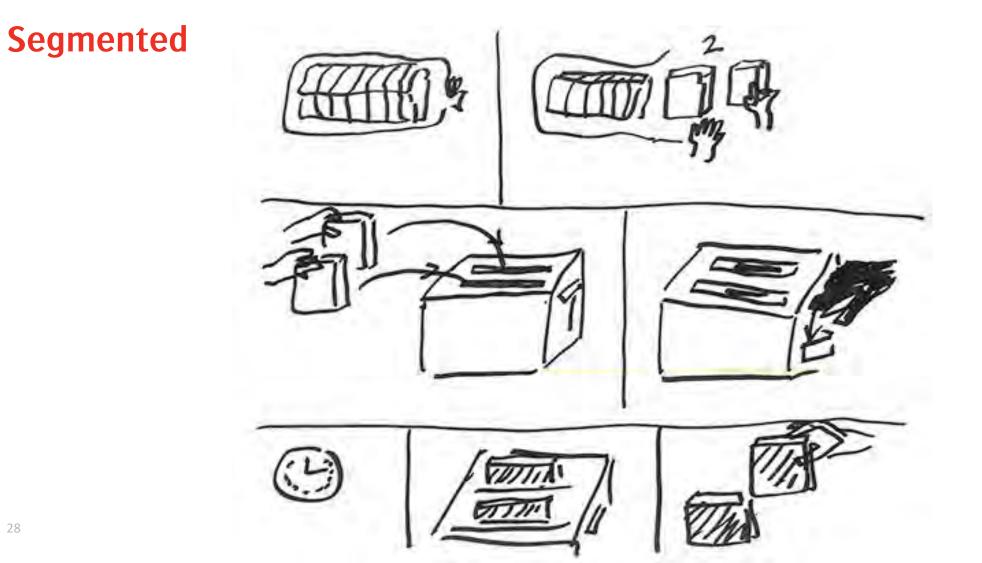


Organized

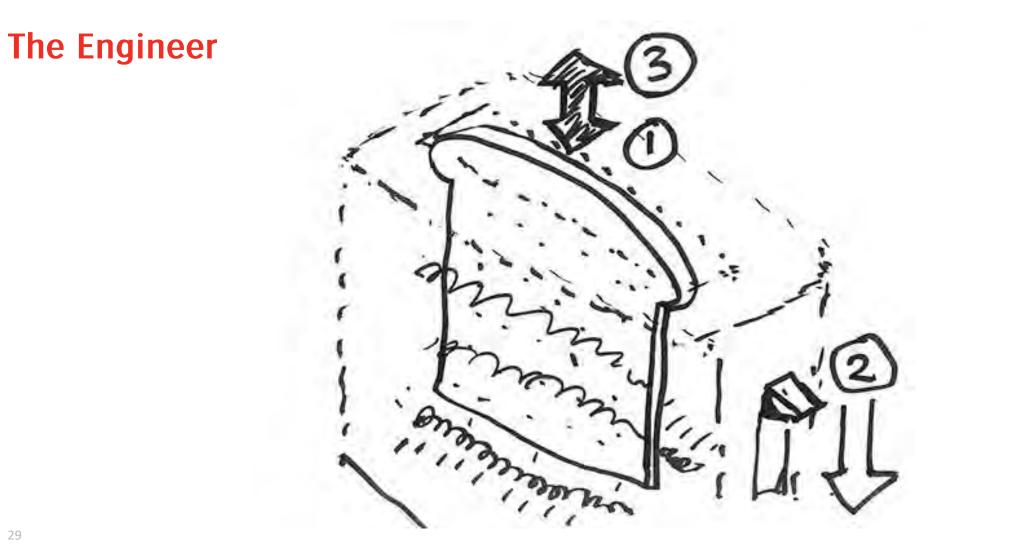






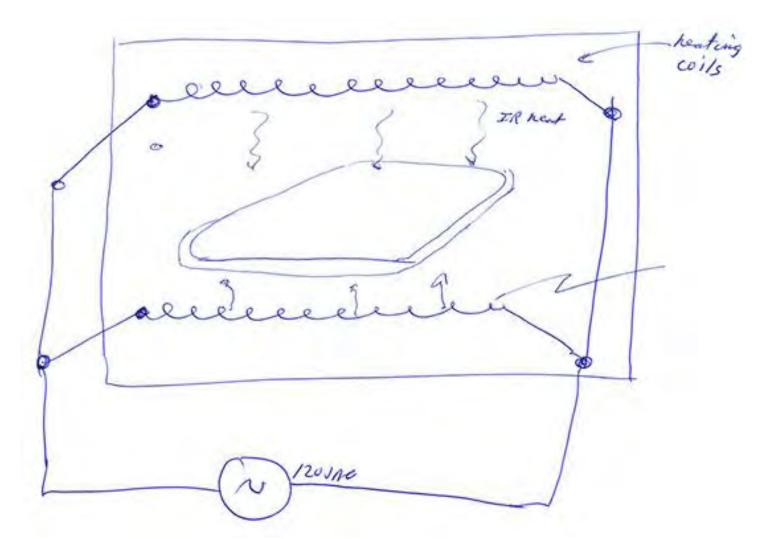


AGFA 🛷



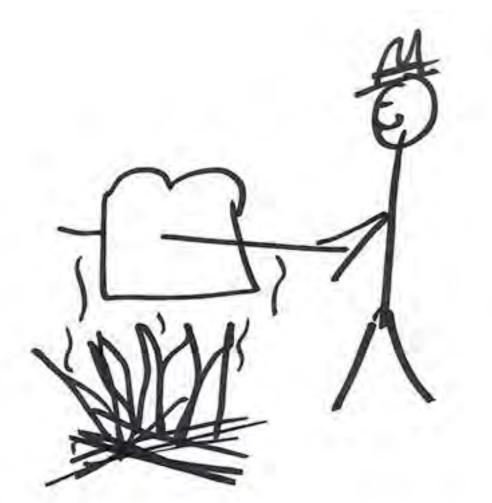


The Electrician



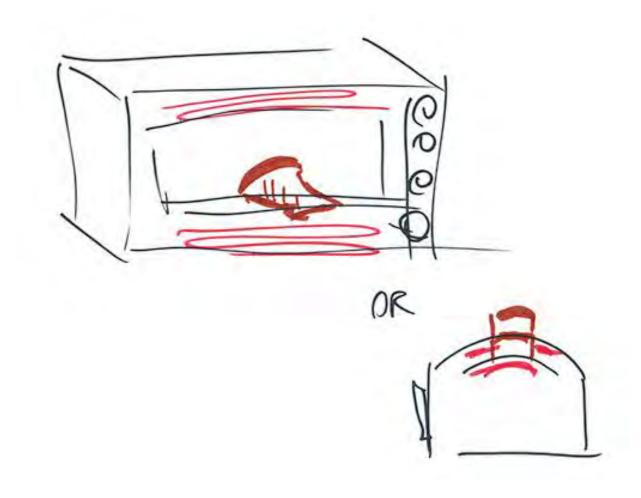
AGFA 🗇

The Student – NO MONEY TO DEVELOP ANYTHING





Change Technology Guy





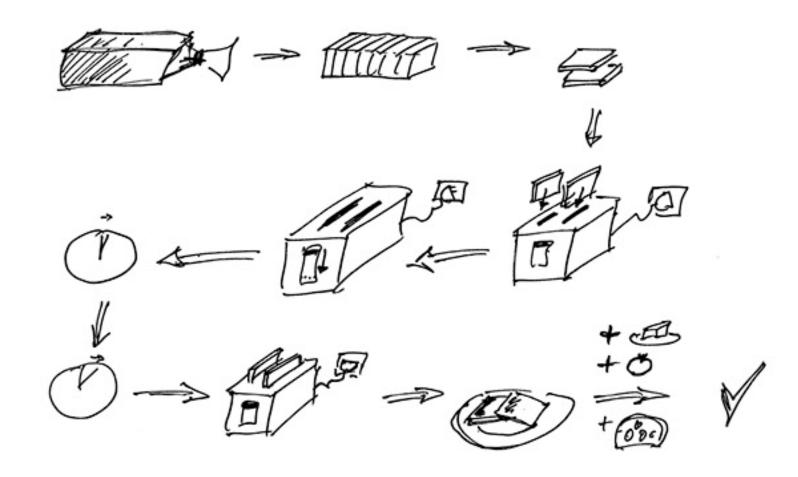
The Simplelist





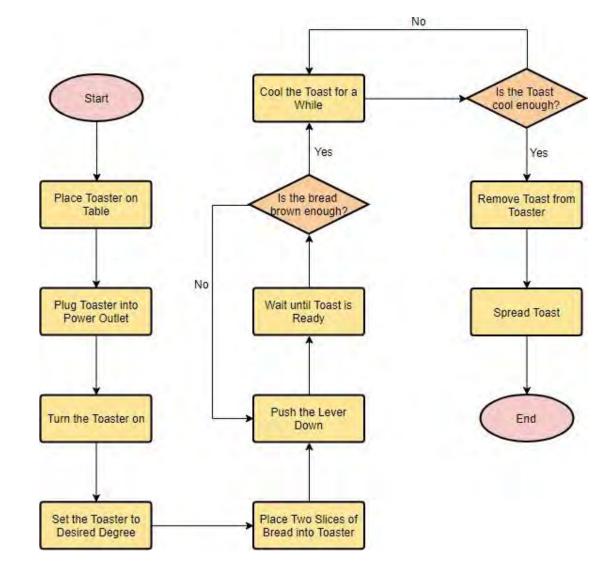


Getting there...



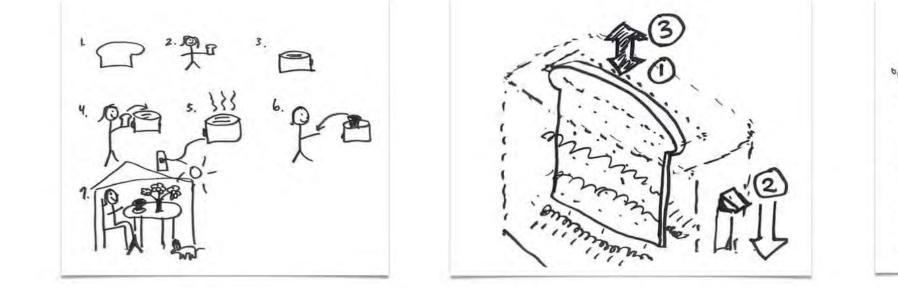


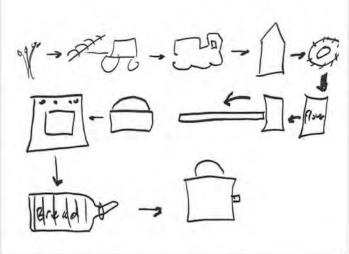
The Result A Workflow





Its important to Analyz the ways





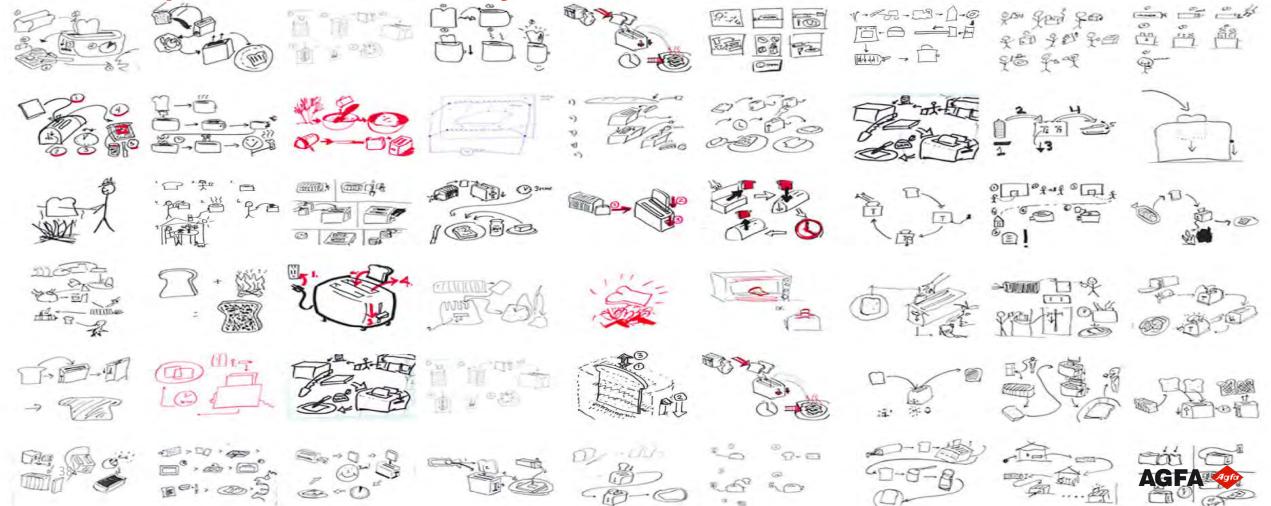
People

Mechanics

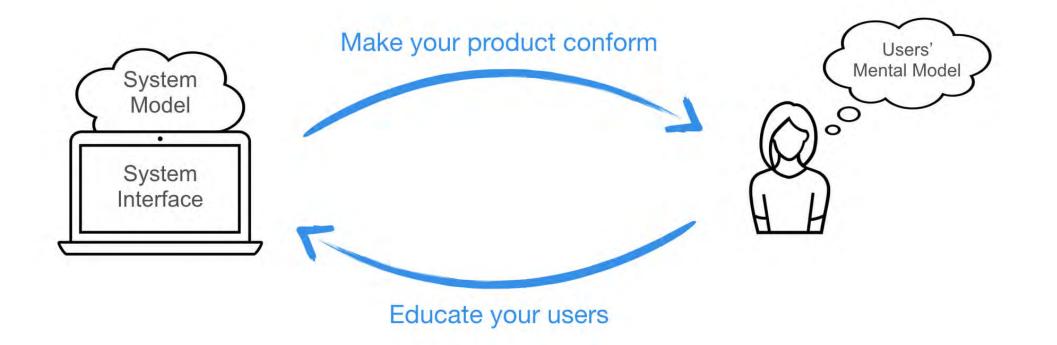
Supply Chain



All steps are ok but are they efficient?

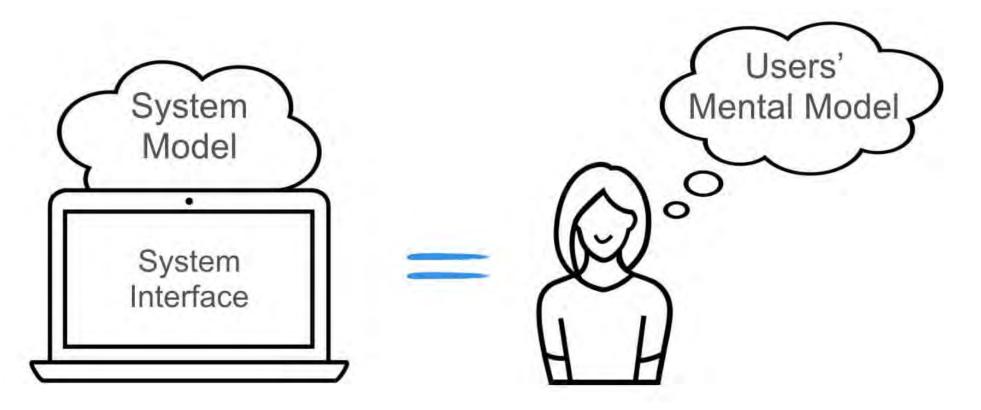


Education and Product Expectations go hand in hand





If its clear to everybody, it works





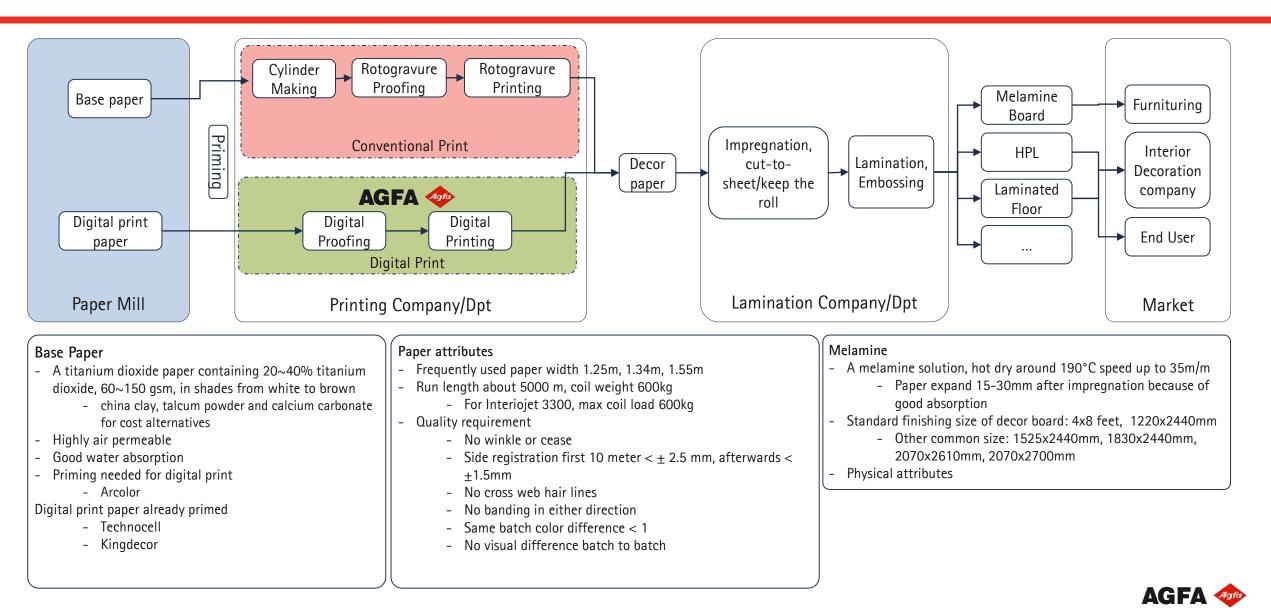
So how does this apply to Flooring and Surfaces.

- Clear methodology for flooring and Surfaces
- Clear combinations of Agfa Inks, Printers and Software
- Clear Support Services and Training
- Clear objectives and end results for both parties involved
- Remember this is industrial printing 4.0





Today's Manufacturing Workflow



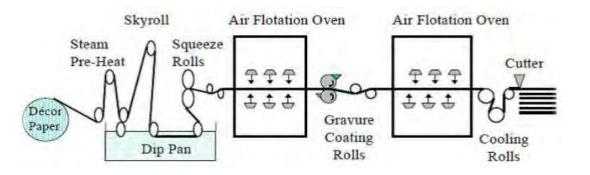
Same industrial workflow

We are only a small part of the whole

- Impregnation process
 - Dip the paper into the dip pan of melamine solution, heat and blow to dry
- Size changes during impregnation
 - Normal paper roll width: 1250mm up to 1550mm
 - About 2% elongation in booth directions after impregnation
 - The impregnated paper are then cut to sheet

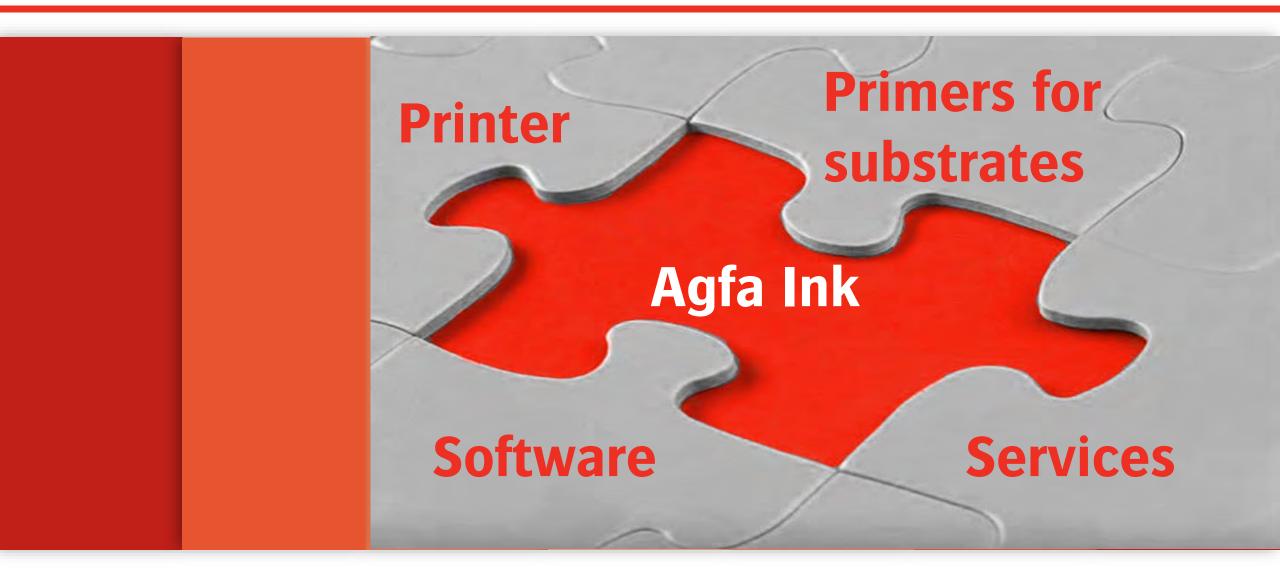






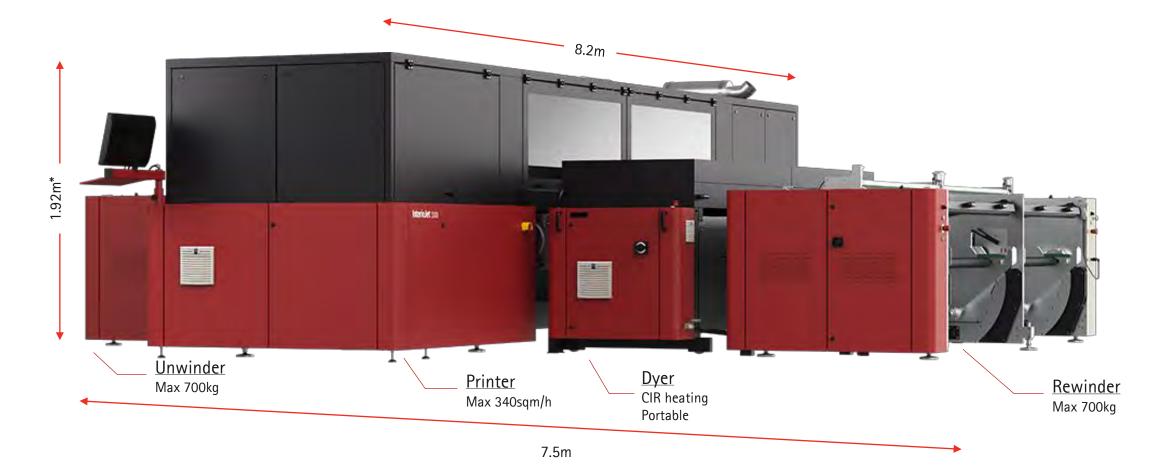


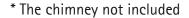
Combining Expertise





InterioJet 3300







The InterioJet 3300 Solution

Highlights of the InterioJet system

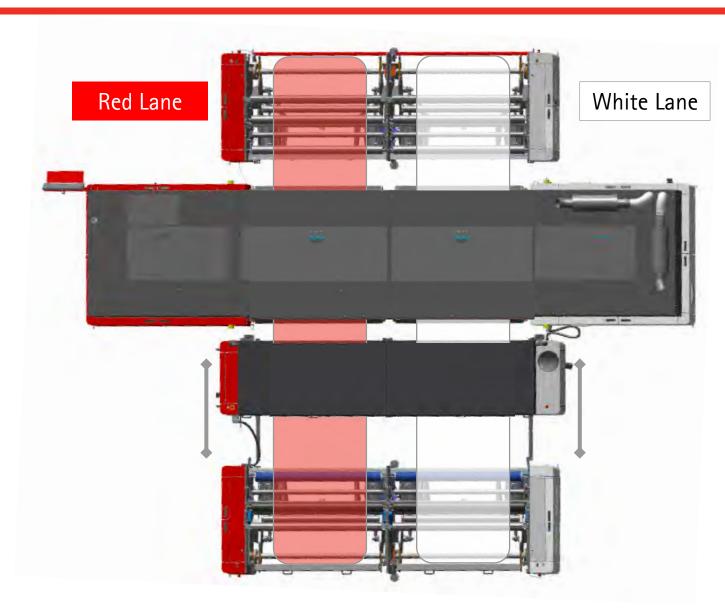
- Print engine (Hardware)
 - Heavy duty printing engine capable op producing 340 Sqm per hour
 - 60 print heads giving 2x 600 DPI per colour
 - 2x 1550mm print width
- Paper Transport
 - Heavy duty unwinder and rewinders with 2 tension zones
 - Jumbo roll options
 - Easy loading of jumbo rolls (option)
- Ink system
 - Large ink reservoirs for continuous unattended production
 - Unique ink set for Decoration surfaces with a high color gamut
 - Pigment colors are the same as Gravure pigment colors
 - Agfa Primers available for self coating on Gravure machines





InterioJet 3300 Dual-lane System

- Separate production lanes
 - White and red lane run together or separately : 2 separate transport belts
- Max media width 1550mm per lane
- Independent image print per lane



Working closely with Unilin Technologies

- Unilin is a leader in the industry & a strong partner in Flooring
 - Part of Mohawk Industries the largest flooring manufacturer in the world
 - IP holder of many patents in the flooring industry
- Brand names like Mohawk, Pergo, Quickstep and Balterio
- Agfa understands Flooring and Surfaces, its not a extra product





Agfa WB & UV Inks and Primers

- Specially developed Agfa WB Inks for flooring and surfaces
 - Special Water based Red ink— for wood décor designs
 - Agfa uses the same pigment colors as Gravure printing
 - Pigment selection:
 - Cyan: PB 15:3
 - Yellow: PY150
 - Red: PR254
 - Black: Carbon black
 - Light black Carbon black
 - Specially developed primer for HPL/CPL flooring technologies
- Understanding the market from within not from the S&D world





Our WB Systems has been Field tested in Russia/Belgium/China

- 2 year Field testing program before availability
- Industrial Printer with 24/7 printing capabilities
- Strong new concepts like Dual Lane printing
 - Independent paper transport for extreme accuracy
 - High accuracy in dot placement
- Local Service models





Family of solutions for flooring

- Agfa InterioJet 3300 Dual-lane Printer (Water Based)
 - High Pressure Laminate HPL and CPL
- Agfa InterioJet 3300 LVT Single lane (UV based)
 - LVT Luxury Vinyl Tiles Market







Conclusion

AGFA InterioJet the next generation inkjet based solution for Flooring & Surfaces



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