Head of A320 Family Paintshop Hamburg Ralph MAURER

### Airbus Innovation Days Direct Printing Technology



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# **Traditional decoration methods for complex designs**





## Traditional decoration methods for complex designs

### Adhesive Film

Application of adhesive film and overcoating with clearcoat



### <u>Airbrush</u>

Build up design layer-by-layer with multiple working and drying steps



### Dot / Hexagon Stencil Process

Build up design layer-by-layer with multiple working and drying steps



<u>Advantages</u> All freedoms of design	Advantages Individual design with one paint system	Advantages Reproducibility of color gradations
<u>Disadvantages</u>	<u>Disadvantages</u>	Disadvantages
High material costs	High lead time	High recurrent costs (development & stencil production)
Durability at high erosion areas	Repeatability of design	Limited appearance and complexity



## Traditional decoration methods for complex designs

#### New Technology vs traditional methods

Traditional methods become insufficient with airlines desire for artistic designs

Development of a new technology to create complex livery paintings automatically and increase flexibility







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## **Direct Printing Technology**

Printer head is similar to an inkjet-printer

CMYK color with optional white primer

Solvent ink instead of paint

3D-surface printing technology





## **Direct Printing Device**





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## Launch Customer – Thomas Cook Airlines

### Launch customer

Delivery to Thomas Cook Airlines in March 2016

1<sup>st</sup> industrial application on vertical tail plane



## Launch Customer – Thomas Cook Airlines





### **One step to Future Factory**





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