



Customers are telling us that...

- "The packaging & label markets are still strong & growing"
- "our incoming orders are still doing well"
- "We are working at high capacity"

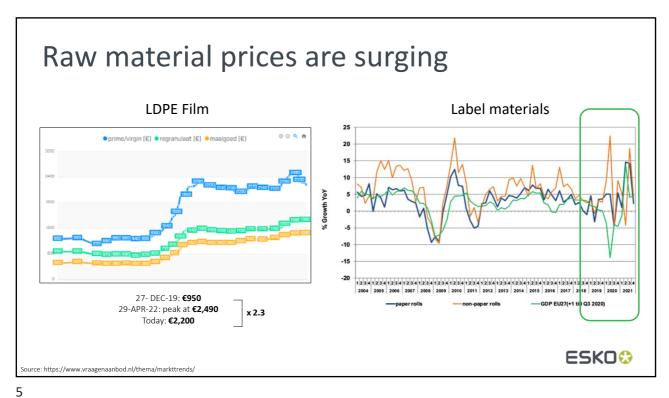
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And you're concerned with...

- Soaring energy and material cost
- Supply chain disruption
- Rising inflation
- Lack of skilled labor
- Volatile planning and reduced efficiency, leading to costly reprints and high material waste
- Environmental sustainability





Cost of sea transportation causes disruption in globalized market and drives inflation.



The recovery in world trade that started faster than expected in mid-2020 created a capacity shortage in maritime transport.

As a result, sea container prices rose phenomenally: from \$2,000 (€1,700) each in November 2020, to more than \$16,000 in September 2021. Today (June 2022), the composite index decreased by 1%, but remains 8% higher than a year ago at \$10,695 for a 40ft container going from Shanghai to New York.

Source: https://www.drewry.co.uk/supply-chain-advisors/supply-chain-expertise/world-container-index-assessed-by-drewry



Can we predict the future?

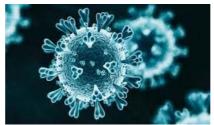




Supply chain disruption



War and economic uncertainty



Logistics and inventory

Covid19 & changing world of world



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Bottom line:

The future will never be the same again, and our industry will have to adapt to a different future and different way of working.



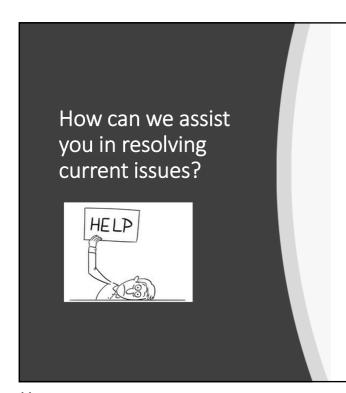
How can we Minimize Waste, Improve Efficiency and Save Costs - with Print Inspection?

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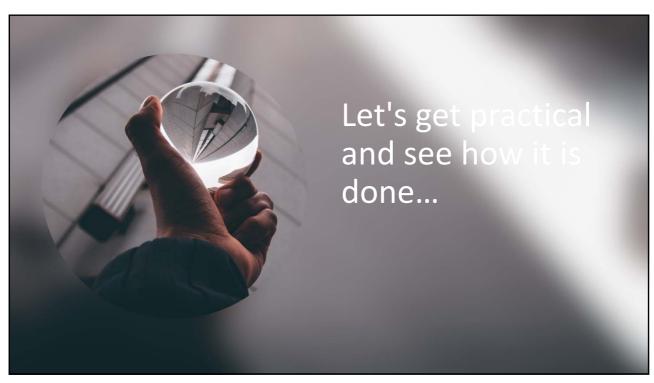
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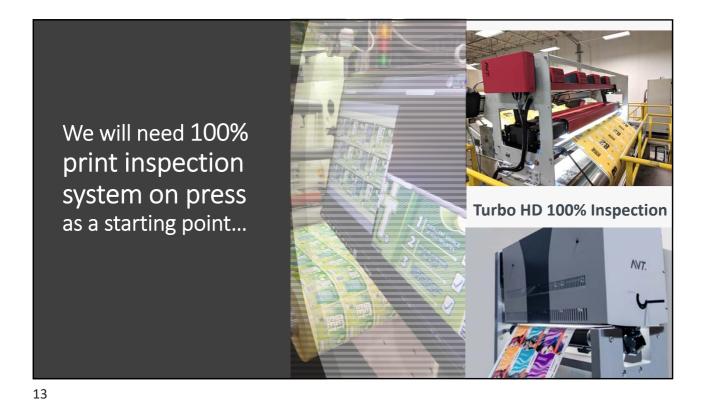
What are the main challenges printers and converters are facing?

- Shorter runs, many jobs per day with job changeover challenges
- Less skilled and trained operators
- Material costs went up and availability is challenging
- Too much material is wasted in both makeready and run-time. Need more control over the process
- Need to improved efficiency, and time-to-market (OTD)
- Re-prints are very costly and needs to be reduced or eliminated
- Brand requires best quality, and we cannot risk losing customers due to quality issues



- Perform faster job change with minimal waste
- Get all data from pre-press to enable inspection automation
- Ensure the correct job is printed (avoid mistakes and re-prints)
- Alert immediately and reduce waste and time
- Identify repeating/ process issues & their source
- Ensure printing enough good material to avoid re-prints
- Deliver excellent quality, every time, and assure no bad material leaves the floor





How can we assist you in resolving these issues?

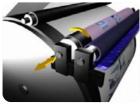


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Faster makeready & Press Control (register, pressure, color)

- The target to reduce makeready time and waste with automatic press setup
- Manual register & pressure can take 10-20 min and 500-700meter of waste
- Automatic register and pressure can take 2-3min and up to 100 -150m of waste
- The result reduction of hundreds of meters, valuable time and expertise
- Color make ready can be done faster with inline Spectral color measurements







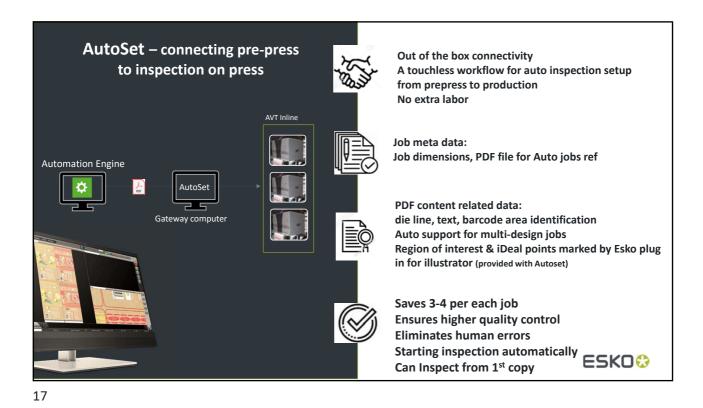


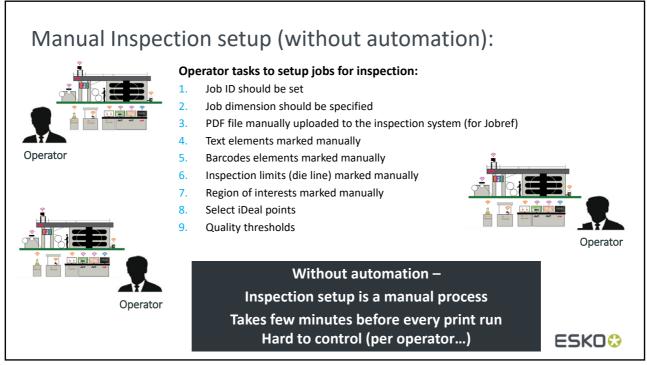
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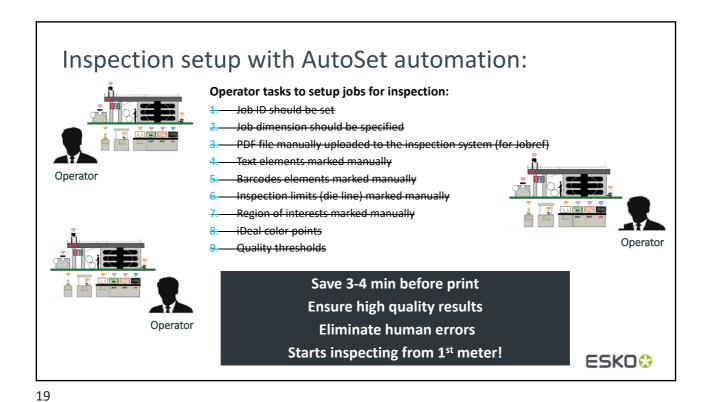
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A single point of truth for quality management **Standardization Accuracy Automation** ESKO ()

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Job Verification



- AVT inline verification tools
- Main benefits making sure the right job is printed, saving costly mistakes (wrong or defective plates, wrong revisions, languages)
 - JobRef online Job verification to PDF
 - supports comparison of single package PDF to all packages in the repeat
 - → supports "multi designs" jobs





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100 % Based Automatic Inspection – Earlier warning to reduce defect lifespan

- After a short set-up, the Inspection Platform automatically identifies any type of printing and production faults
- Marks & Classifies and display the detected defects on the screen
- Alerts Immediately once a defect was detected by the inspection system







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Alerting on any evolving issue!

- Any Print defect
- Color monitoring
- Color register
- Varnish / Cold Seal problems
- Die cut & matrix removal
- Repeat length
- Barcode readability
- And more...











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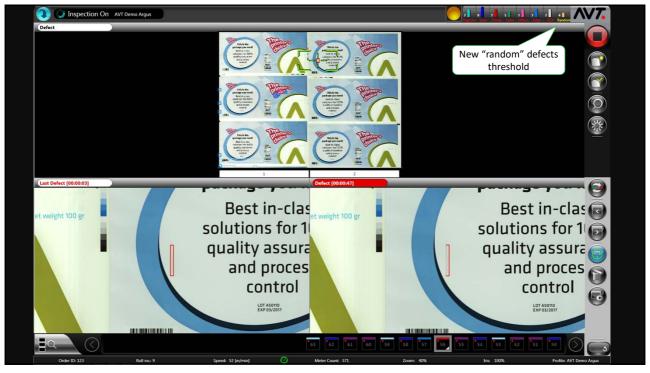
Continuous and Random Defects Monitoring

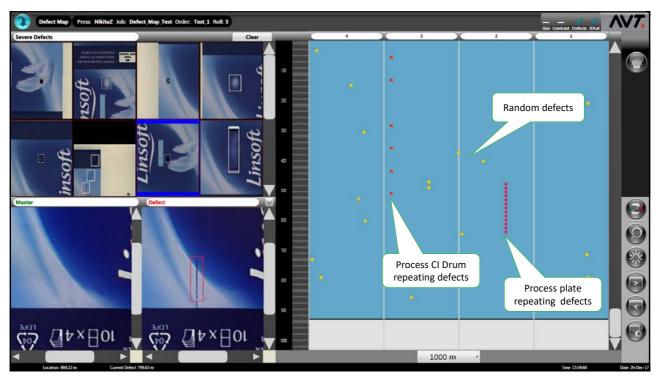
A process control tool to help printers and converters focus on what really maters

- Differentiate between repeating defects versus random defects
- Focus on the most relevant defects in real time
- Identify source of defect: Plate defects, Anilox, CI Drum, etc.
- Enables better decision making on roll quality and waste removal









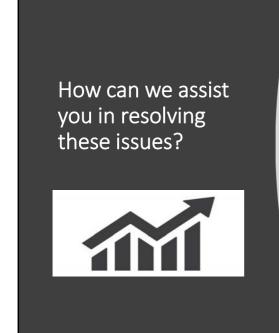


Good material monitoring

 Automatic counting of good material printed, according to target substrate length or the number of packages, ensures that the correct amount is produced, and no reprints are needed due to higher-than-expected waste levels







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100% inspection, reporting & waste removal workflows

- 1. ESKO AVT 100% Turbo HD inspection, with highest inspection abilities
- 2. Complete reporting on everything inspected, monitored and measured
- 3. Easy removal of defects downstream with WorkFlow Link

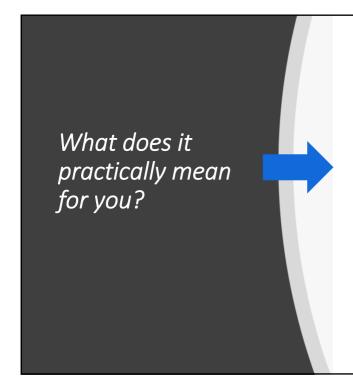








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Plastica (Romania) – "We were able to reduce production costs by 25%, increase productivity by 30%, and reduce preparation time for all jobs. We also have zero complains from our customers now"

AG3M (France) – "We increased productivity by about 30%. We reduced paper wastage, unnecessary re-prints, time and machine stops. In term of quality, 99% of defects are removed now prior to shipment"



