THE FUTURE IS NO W Sustainability · Efficiency · Digitalisation



ATHENS 2023 CONFERENCE

20TH - 22ND SEPTEMBER 2023 GRAND HYATT ATHENS



A Big Welcome to yet another ULD CARE







Four major themes for the ULD Community

- Sustainability
- •Safety
- Knowledge and training
- •Digital and Technology





Sustainability







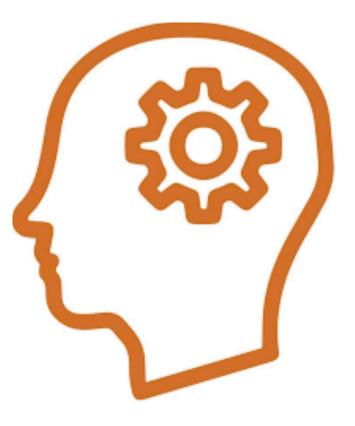
Safety







Knowledge and training







Digital lies in the centre

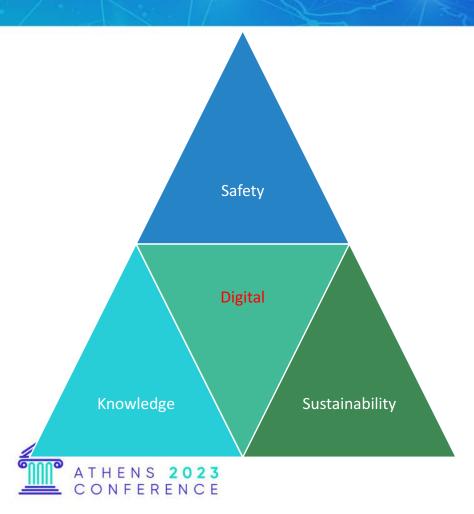
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FUTURE

Sustainability • Efficiency • Digitalisation



ULD CARE & Digital

- 1970's first edition of the IULDUG.
 - Mainframe hosted
 - Weekly and monthly paper reports sent via COMAT to airline members
- 2008- Migration to Web based server, on line reports
 - Real time lists
 - Search Function







What does the IULDUG system do?

• Only independent platform displaying unit status to each side of any interline transfer of ULD assets.

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Value proposition to member airlines

- Trusted platform for exchange of assets.
- User friendly visibility of any recorded ULD transfer that involves an IULDUG member counterparty.
- Built in "change request/dispute resolution" process.

Despite its 5 decades of service the IULDUG continues to provide exceptional value for money while enabling risk free cargo interlining.





But IULDUG has shortcomings

- Doesn't capture and process off airport ULD transfers
- Requires manual data input
- Stand alone operation, not capable of modern inter system connectivity
- IT is reaching "use by" date





Off airport ULD Transfers

 2013 presentation on an Electronic UCR project by a ULD CARE working group headed by Charles Drummond.

What's the problem?

- Control and visibility of ULD movements off airports is an industry wide issue.
- The current UCR form standard does not adequately meet the needs of the industry
- The UCR form is not user friendly.
- Process for ULD transfer and LUC message does not have a proper 'home' in IATA manuals



Working Group



WORKING GROUP MEMBERS





















- 10 years later problem has multiplied..
 - Intermodal, off airport operations are fundamental to air cargo operations
 - ULD CARE studies show that, on average, a PMC will undergo an off airport move every 60 days
 - Also typically a large number of units will remain off airport in excess of 10 days
 - Estimated around 20-25000 PMC overdue for return at any particular day, that's over 600 B747 shipsets.
 - Meanwhile despite best efforts of ULD CARE and IATA ULD to improve the working environment of ULD continue to be widely disrespected.









...and digital is no longer an option

- Ordering food in a restaurant
- Parking your car on a meter
- Paying for your shopping
- Checking in for your flight
- And on and on and on and on

SO WHY NOT A DIGITAL UCR?????













Digitization opens a wide door to finally solve this long standing problem

- Replace current paper and pencil recording of ULD transfers at loading dock with hand held devices
- Replace computer terminal entry of paper records with data upload from hand held devices
- Display real time and accurate data to all stakeholders
 - Airlines
 - Cargo terminals
 - Forwarders
- Seamless data feed via API's to related systems





Introducing the ULD CARE E-UCR











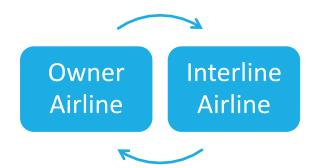
Live demonstration





Natural extension for the IULDUG system

- Logical to extend IULDUG's footprint
- Will modernize the IULDUG system with improved input and output
- The UCR and the IULDUG are like bread and butter- they go together, an E-UCR is a natural development path.

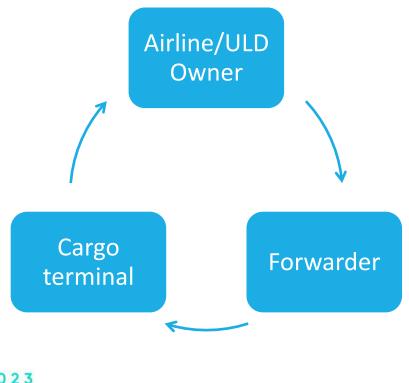






Win Win Win

Finally an opportunity to untangle the inefficient, unsustainable, legacy process that has no place in a modern air cargo process and works to the disadvantage of all stakeholders







Value proposition-airlines and other ULD owners

- Regain visibility of the 8-10% of your ULD assets that are somewhere off airport, even off network
- Receive accurate and timely LUC messages relating to off airport transfers (YY codes)
- Photo evidence of ULD condition
- Enhanced management of accessories -nets-straps-fire blankets-etc.
- Utilize accurate ULD disposition data for analysis purposes
- Enhanced control of rental pallets





Value proposition- cargo terminals

- Replace legacy paper based UCR's with modern digital application
 - Mountains of paper UCR's
 - Hours of data entry
 - Time spent sorting out errors
- Resolve the question of common marked rental pallets





Value proposition-freight forwarders

- On line visibility of ULD assets "on their tab".
- Greater availability of ULD due to industry wide efficiencies.
- Photo evidence of ULD condition.
- Enhanced management of accessories -nets-straps-fire blankets-etc.
- Actively participating in digitisation.





Where are we now?

- Emirates have been running a live trial in DXB and other stations for some weeks now.
- KLM Ground Services (handles containers) have been running the system for about 9 months.
- Eva Air is launching a trial of the system

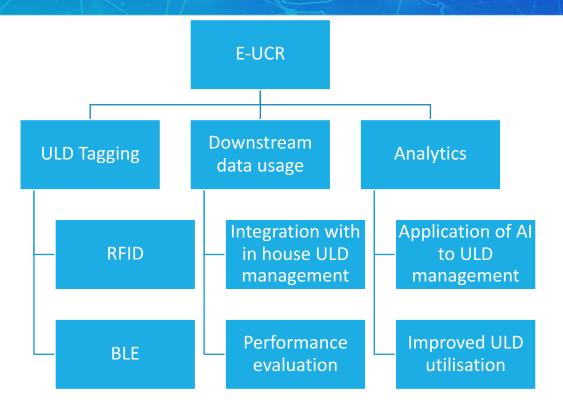






E-UCR is just the start

Delivering accurate and timely data







ULD Tagging

• RFID

- Low cost ULD tagging
- Eyeball replacement
- Opportunity to employ low cost RFID antenna on nets, straps, FCC etc.
- E-UCR is set up to accept RFID and BLE digital inputs.

FUTURE

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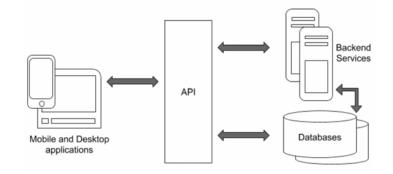
ONFERENCE





Downstream Data usage

- The E-UCR is just a start- with comprehensive and timely reporting of the transfers of ULD between parties:
 - API's can communicate seamlessly with airlines ULD systems
 - Replace reliance on LUC messages
 - Synchronize between platforms
 - Enable improved ULD control management







Analytics

- ULD management is begging for improved management systems
- Tribal knowledge is not sustainable
- With reliable E-UCR data effective analytics can deliver real value.







Digital lies in the centre

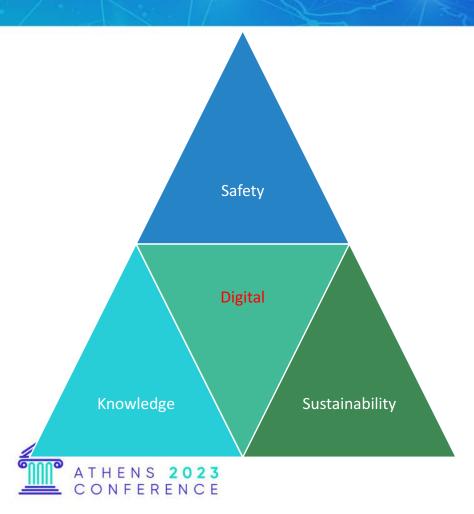
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Sustainability

Digitalisation will increase effective use of ULD assets and reduce the extraordinary amount of waste in day to day air cargo

operations









Safety

Digitalisation will support airline monitoring of the condition of their ULD assets leading to safer operations



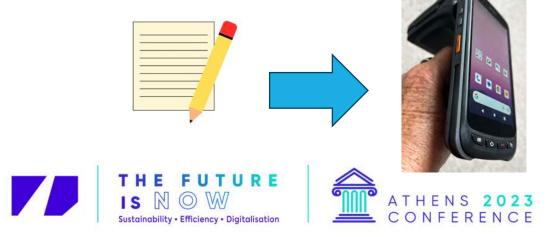




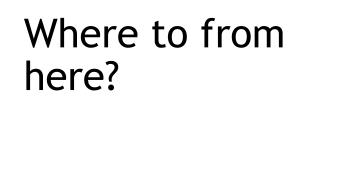


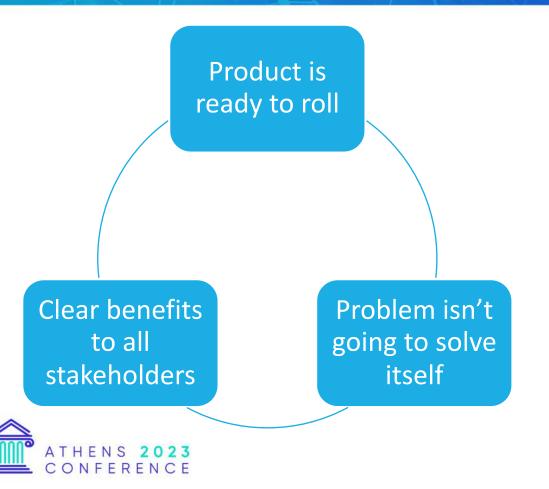
Knowledge and training

Digitalisation is the way of the future, employees look for modern working practices, not paper and pencil.











Acknowledgements

- ULD CARE would like to acknowledge the assistance and support provided for this project:
 - Charles Drummond Avius ULD
 Kenneth Poon Mercury ULD
 - Manoj Menon Em
 - Adam Barrington-Spencer
 - Glyn Hughes

Mercury ULD Emirates Unilode TIACA



