



EUROPEAN
RENTAL
ASSOCIATION

Technical Committee

Martin Sebestyén,
Zeppelin Rental



Please react on Twitter, @era_rental



- 1. Members of ERA's Technical Committee**
- 2. Mission Statement and Committee Goals**
- 3. Recent achievements of the Committee and works in progress**
 - a) Telematics standards**
 - b) Trainings**
 - c) PDI process**
 - d) Works in progress / next steps for the Committee**
 - e) Works of the other Committees / Working Groups**

	Company	First Name	Last name
Chairman	Zeppelin Rental	Martin	Sebestyen
Associations	ASEAMAC	Jose	Blanco
	ANAPAT	Jorge	Ferrando
	BBI	Juergen	Kuespert
	IPAF	Brian	Parker
	SRA	Leena	Haabma Hinze
Rental Companies	Atlas Copco Specialty Rental Division	Julio	Tome
	Avesco Rent	Julien	Launay
	Boels	Guy	Cremer
	Boels	John	Smets
	Boels/Cramo	Klävs	Otisons
	Bredenoord	Gert-Jan	Elfrink
	Bredenoord	Albert	Hulsebosch
	CGT Edilizia	Luca	De Michelis
	Kiloutou	Francois	Renault
	Kiloutou	William	Oldman
	Kiloutou	Amaury	Delepoulle
	Loxam PAD	Darrel	Voce
	LOXAM	Thierry	Lahuppe
	LOXAM	David	Gravez
	RENTA	Anders	Victorsson
	Ramirent	Miia	Konttinen
	RIWAL	Johan	Timmer
	RIWAL	Philippe	Witte
	Sunbelt Rentals Ltd (Aplant)	Andrew	Winlow
	Sunbelt Rentals Ltd (Aplant)	Matthew	Ross
	Sunbelt Rentals	Glyn	Matthews
	TVH	Jean-Pierre	De Nil
	TVH	Wim	Carlier

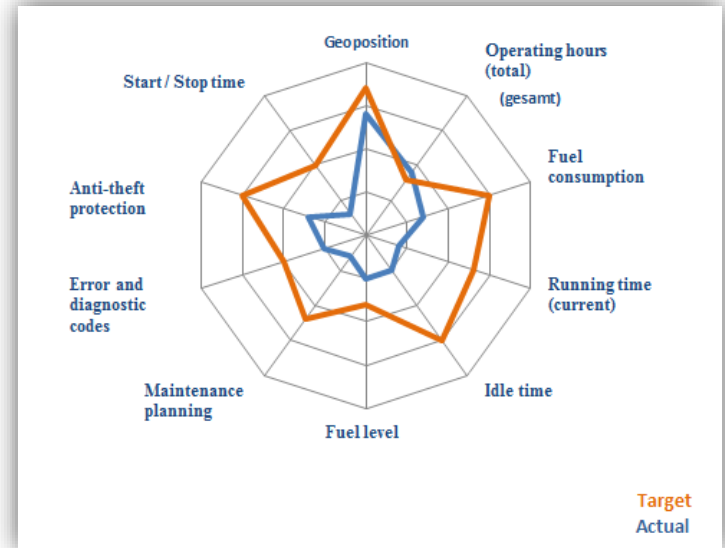
Associate Members	Altrex	Rudie	Beverwijk
	AMMANN Verdichtung GmbH	Patrick	Stellwag
	Atlas Copco Airpower	Anuj	Sachdeva
	Atlas Copco Portable Energy Division	Stefaan	Vertriest
	Briggs & Stratton	Paul	Bramhall
	Caterpillar	Michael	Lilljequist
	Doosan Bobcat EMEA	Stephane	De Laplagnolle
	Euro Auctions	David	Betts
	Gorman Rupp	Matthew	Zwaneveld
	Haulotte Group	Maxime	Girard
	HILTI	Gerhard	Gasser
	Hitachi	Arnold	van Benthem
	Hitachi	Rene	Danielsson
	JCB	Claudio	Fiorentini
	JLG EMEA	Marko	Kuipers
	Komatsu	Emanuele	Viel
	Manitou	Alain	Becque
	Ritchie Bros	Christian	Sonneville
	Ritchie Bros	Abel	Rodriguez
	Smartequip	Alex	Schuessler
	Perkins	Dave	Stollery
	Skyjack	David	Hall
	Skyjack	Kurt	Atchison
	Terex/Genie	Jacco	De Kluyver
	To Increase	Michiel	Toppers
	Trackunit	Mikkel	Dalgas
	Trimble	Jean Francois	Sourdoire
	Volvo CE	Julien	Provensal
	Wacker Neuson	Ville	Viita
	Wynne Systems	Craig	Richmond
	Yanmar Construction Equipment Europe	Magnus	Täljemark
	Yanmar Construction Equipment Europe	Pascal	Duponchee
	ZTR Control Systems	Marc Jan	Backer

Making it safer, easier, cost effective and sustainable for the rental industry by working together with equipment stakeholders on:

1. The key drivers of the total cost of ownership (damages, accidents, maintenance, parts management etc.)
2. Standardization wherever possible (telematics, decals, tie down points, instruction manuals, etc.)
3. Framework of training (skill level, e-learning, etc.)
4. New legislations impact on rental industry
5. Big data (connectivity, telematics, IoT, etc.)

a) TELEMATICS STANDARDS

1. What is my machine doing?
 - Hardware reveals status and activity: hours; fuel burn; alerts and diagnostic codes
2. Where is my machine located?
 - GPS satellites provide precise location and movement
 - Telematics provide a real-time access to machines



a) ACHIEVEMENTS OF THE COMMITTEE ON TELEMATICS

- In July 2021, publication of 3 excel tables, “**Data points telematics ERA**”, based on the data elements of the ISO 15143-3, detailing the priorities of the equipment rental companies:
 - mandatory for the rental companies
 - optional (or, at least, not a priority)
 - to be added to the standard
- For 3 categories of equipment: earth moving, access, and generators and compressors.



a) ACHIEVEMENTS OF THE COMMITTEE ON TELEMATICS

- In March 2021, **joint meeting CECE / ERA**
 - to announce the documents « Data points telematics ERA » to the OEMs
 - To discuss “Digitalisation & machinery trends in construction” with the construction equipment manufacturers , including also:
 - Revision of the Machinery Directive
 - Digitisation of the job site
 - DigiPLACE project



b) RENTAL TRAININGS



b) ACHIEVEMENTS OF THE COMMITTEE ON TRAINING

- Definition of 4 levels of trainings corresponding to 4 levels of maintenance in the document “**Training – Education and Technical Training for Rental Companies**”:
 - **1st Level:** Simple actions required for the operation and carried out on easily accessible parts, in a safe way, using support equipment built in the item.
 - **2nd Level:** actions requiring simple procedures and / or easy-to-use support equipment (built in the item or external)
 - **3rd Level:** operations requiring complex procedures and / or complex to use or to implement portable support equipment
 - **4th Level:** actions implying the know-how of a technique/technology and / or the application of specialized support equipment

b) ACHIEVEMENTS OF THE COMMITTEE ON TRAINING

- For levels 1 and 2, relevant to the rental industry:
 - **“Example of check-in process level 1”**: check-list for a level 1 engineer, describing the standard check-in procedure in a rental branch
 - **“Example of check-in process level 2”**: Checklist relevant to the needs of a level 2 engineer.
 - RFP sent to experts in trainings to provide the OEMs with a model of video / content adapted to the needs of the equipment rental companies

c) PRE-DELIVERY INSPECTION (PDI)

- Plays a key role in product assurance and control
- complete and thorough examination of every aspect of the machines, from the exterior panels to the interior, mechanical parts and electrics
- defects are identified and noted and repairs can be done on the spot

ACHIEVEMENTS OF THE COMMITTEE

- **“ERA recommendations on PDIs”**: recommendations to the OEMs on the improvement of the quality of PDIs

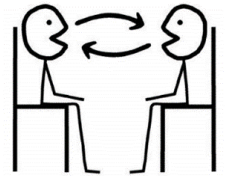


d) WORKS IN PROGRESS / NEXT STEPS FOR THE COMMITTEE

- **Next full meeting of the Committee (physical)**
 - On 25 November, in Crailsheim (Germany) hosted by Yanmar

- **Face-to-face meetings on telematics**

- Due to COVID-19, last face-to-face meetings in October 2019
- Next round on 24 November in 2021
- Discussion around the “Data points telematics ERA” documents (opinion, which equipment can be equipped with the data asked, etc.)



d) WORKS IN PROGRESS / NEXT STEPS FOR THE COMMITTEE

- **Telematics**
 - Improvements of the “Data points telematics ERA” documents
- **Training**
 - Decision to be made on proposals received from experts in trainings
 - Potential collaboration with IPAF
- **Building information Modelling (BIM)**
 - Work on getting the data available from the OEMs
 - Digital twins

e) WORKS OF OTHER COMMITTEES / WORKING GROUPS

- Sustainability Committee
 - ERA Equipment CO2 Calculator
 - Sustainable Supplier Framework
- Future Group
 - Impact of digital transformation on rental