Sports Analytics and Insights with Connected Training

Markus Richter, SAP

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SAP Run Simple

Deutscher Ruderverband DRV

Introduction to Deutscher Ruderverband (DRV)

Deutscher Ruderverband (English: German rowing federation; http://www.rudern.de/):

- It is the largest rowing federation in the world.
- It is one of the most successful rowing federations in the world.
- It was founded in 1883 in Cologne, and is therefore the oldest sport federation in Germany.
- Rowing has been part of the Olympic Games since 1896.
- Starting with the Olympic Games in Beijing in 2008, rowing has also been part of the Paralympic Games.
- There are more than 600 rowing clubs in Germany with over 83,000 members.
- DRV is one of the most successful national sport federations in Germany.

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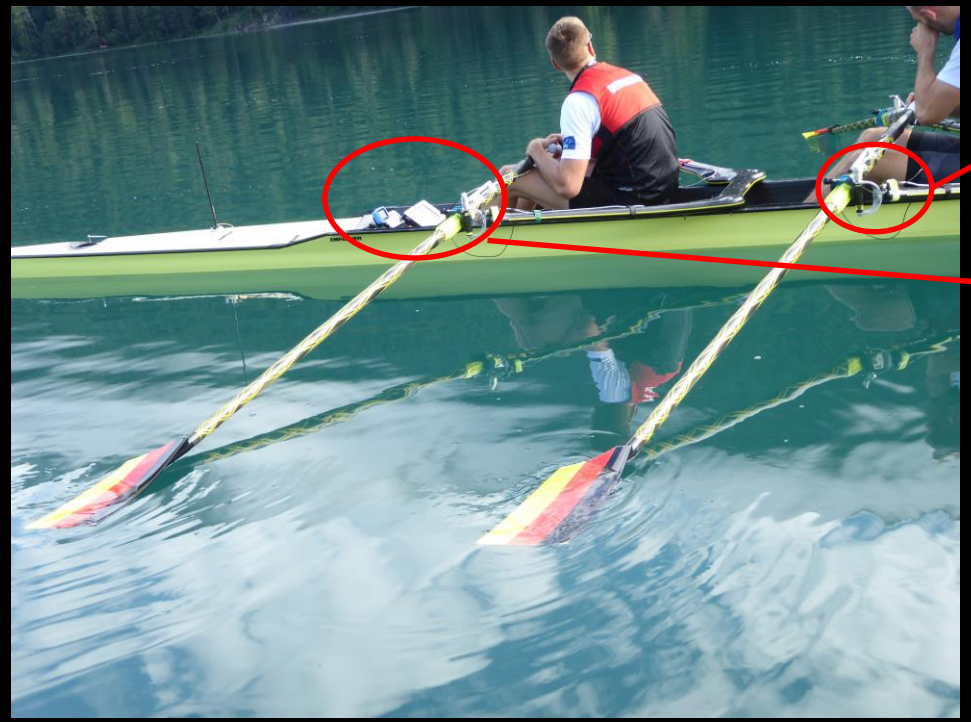
The Role of Technology and Digital Transformation Within the DRV

Role of technology and digital transformation

- Using technology in rowing is key to competing on a world-class level.



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Role of technology and digital transformation

- Indoor rowing is not just another training exercise to simulate water rowing exercises; it has its own championships.

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IoT Co-Innovation Project with DRV

Internet of Things (IoT) project

Key issues:

- Training locations are distributed across Germany.
- The national head coach specified an overall training plan but the boats coaches turn this plan into operational training exercises.
- Quite often the coach is not present while the exercises are being done.

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IoT project

Objective of the solution

Provide a holistic view on various sport-related aspects of each athlete

- General attributes such as weight, height, address, and so on
- Injuries
- Performance diagnostic
- Training management

Provide automatic tracking of all exercises

- Track types of exercises: weight lifting, general endurance, rowing, ergometer
- Identify successor exercises based on the individual’s strengths and weaknesses
- Provide some options for the athlete if measurement devices are used

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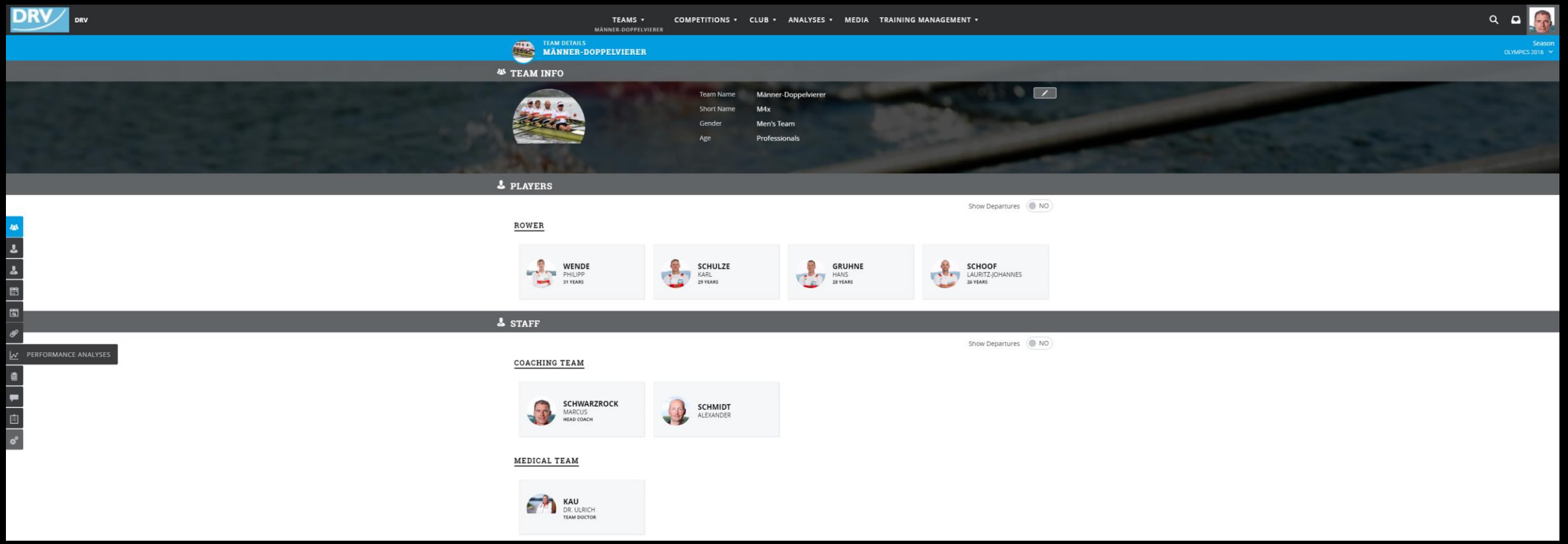
Solution:
SAP Sports One

SAP Sports One



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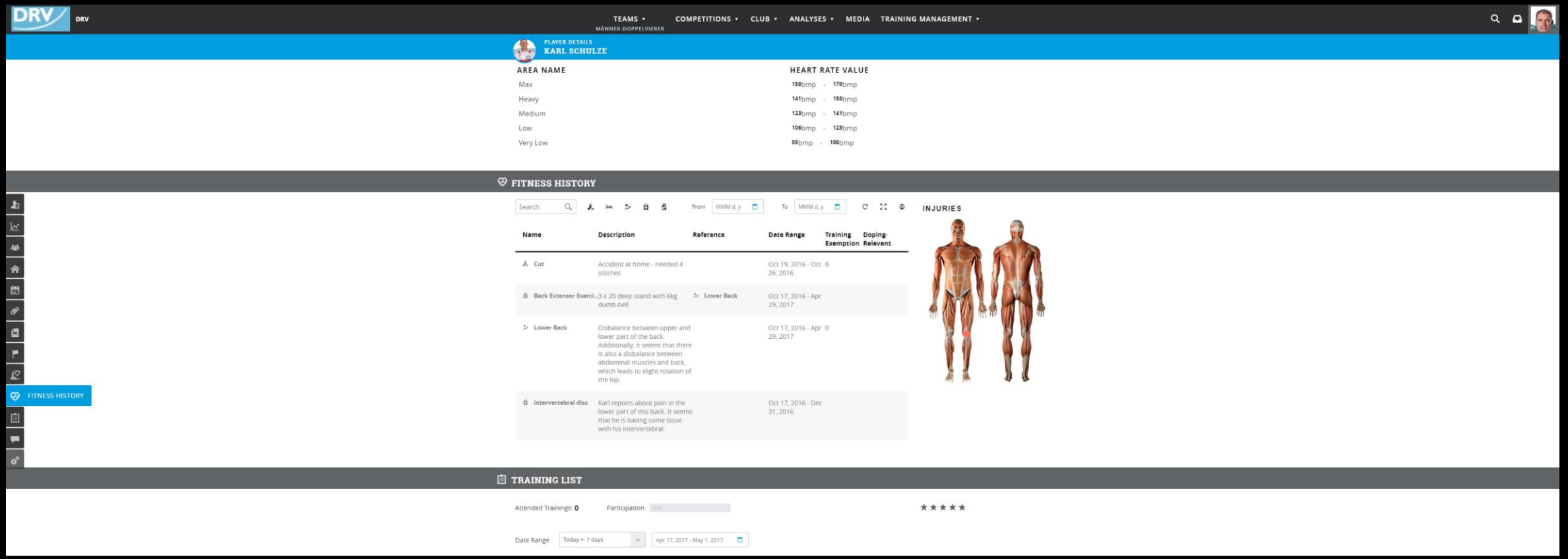

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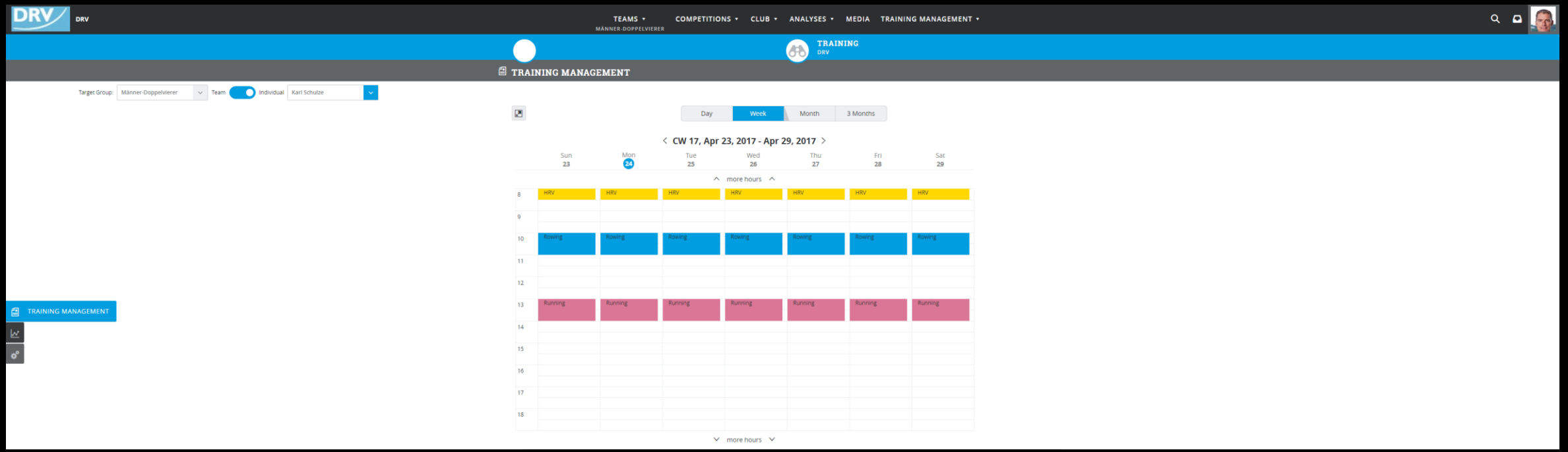

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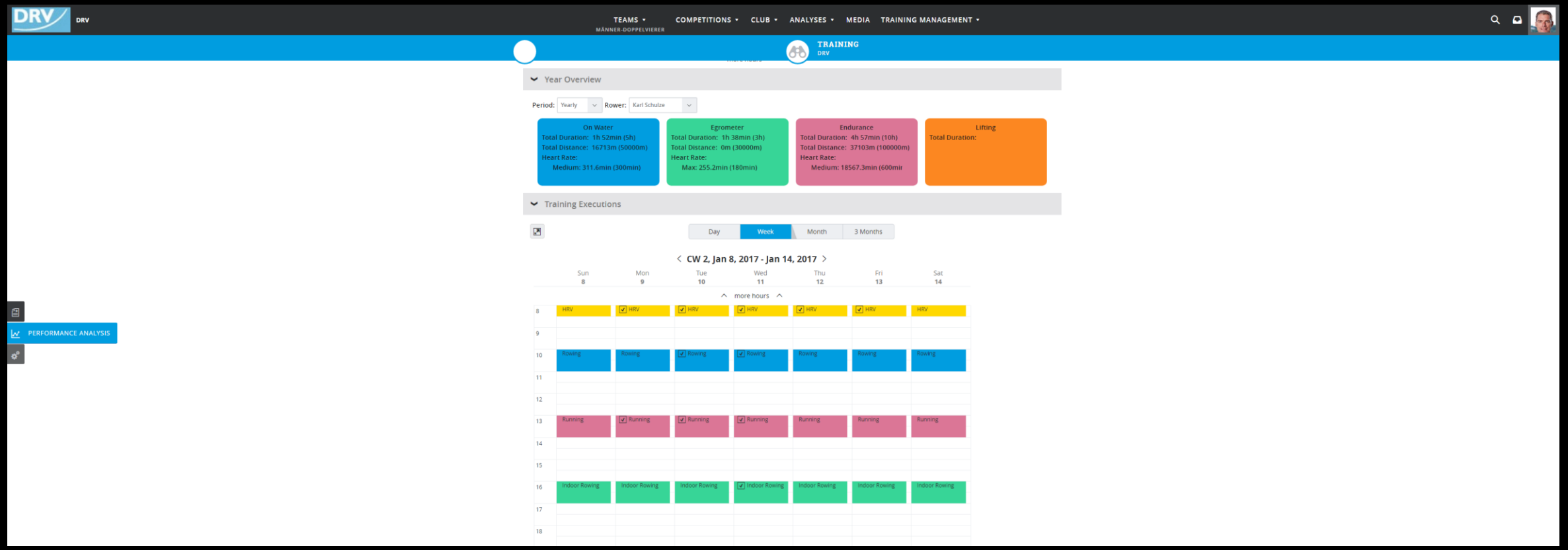

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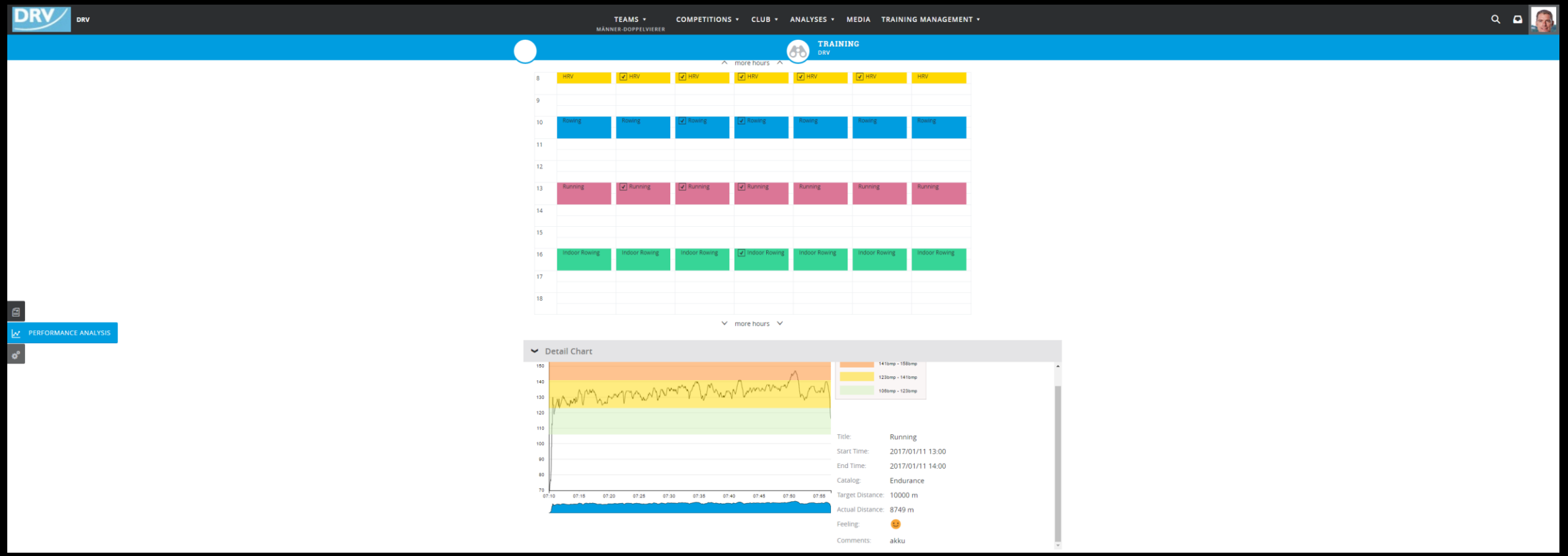

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Benefits

Benefits

Objective measurements allow:

- Training program adjustments on shorter feedback cycles
- Training program adjustments on personalized strength and weaknesses

SAP’s IoT infrastructure provides:

- A scalable and secure platform with enterprise messaging
- Real-time data analysis

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Benefits

- DRV trust in SAP
- A solution for DRV that will last for the next two Olympic decades

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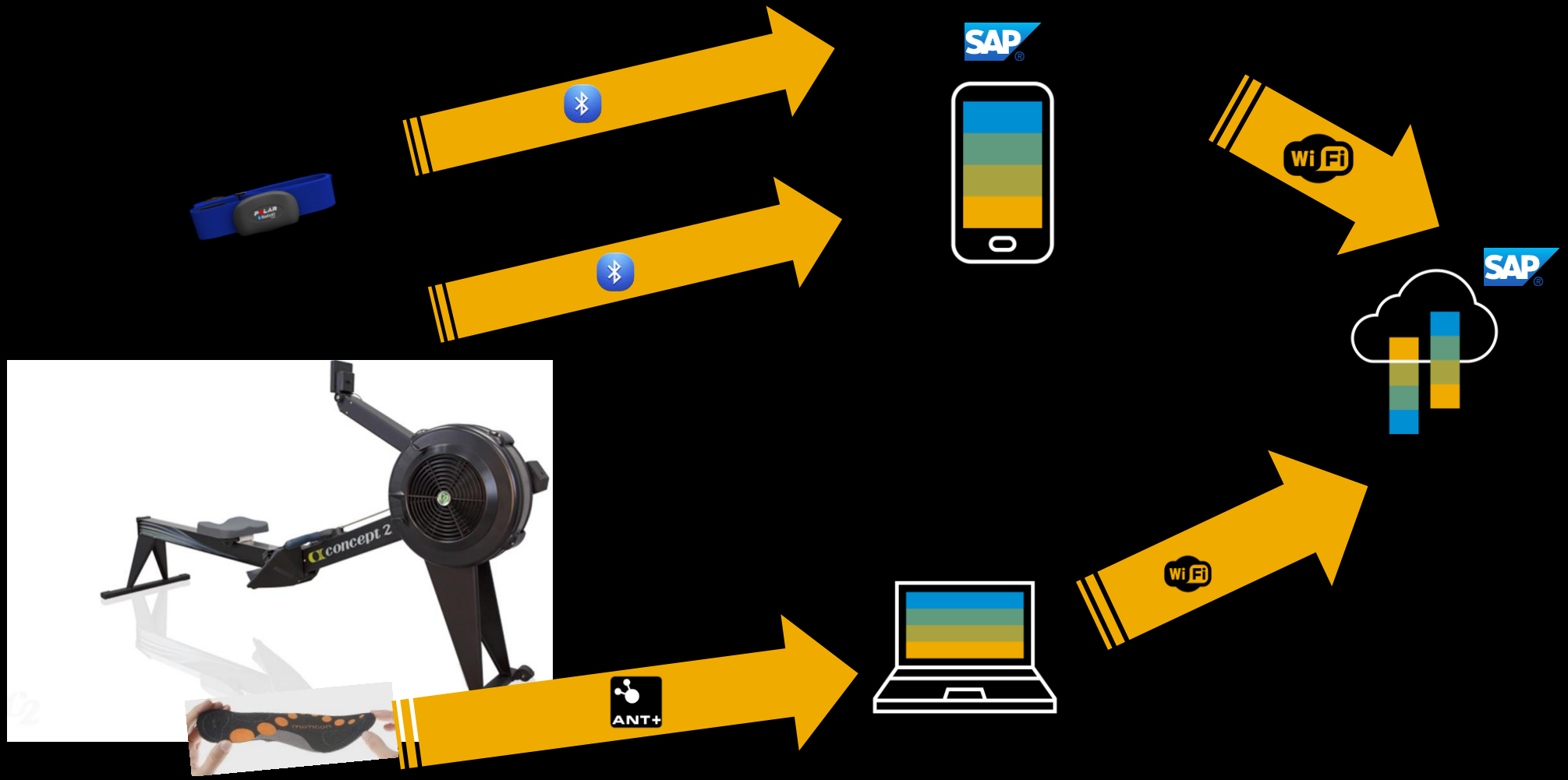
DEMO

Solution architecture



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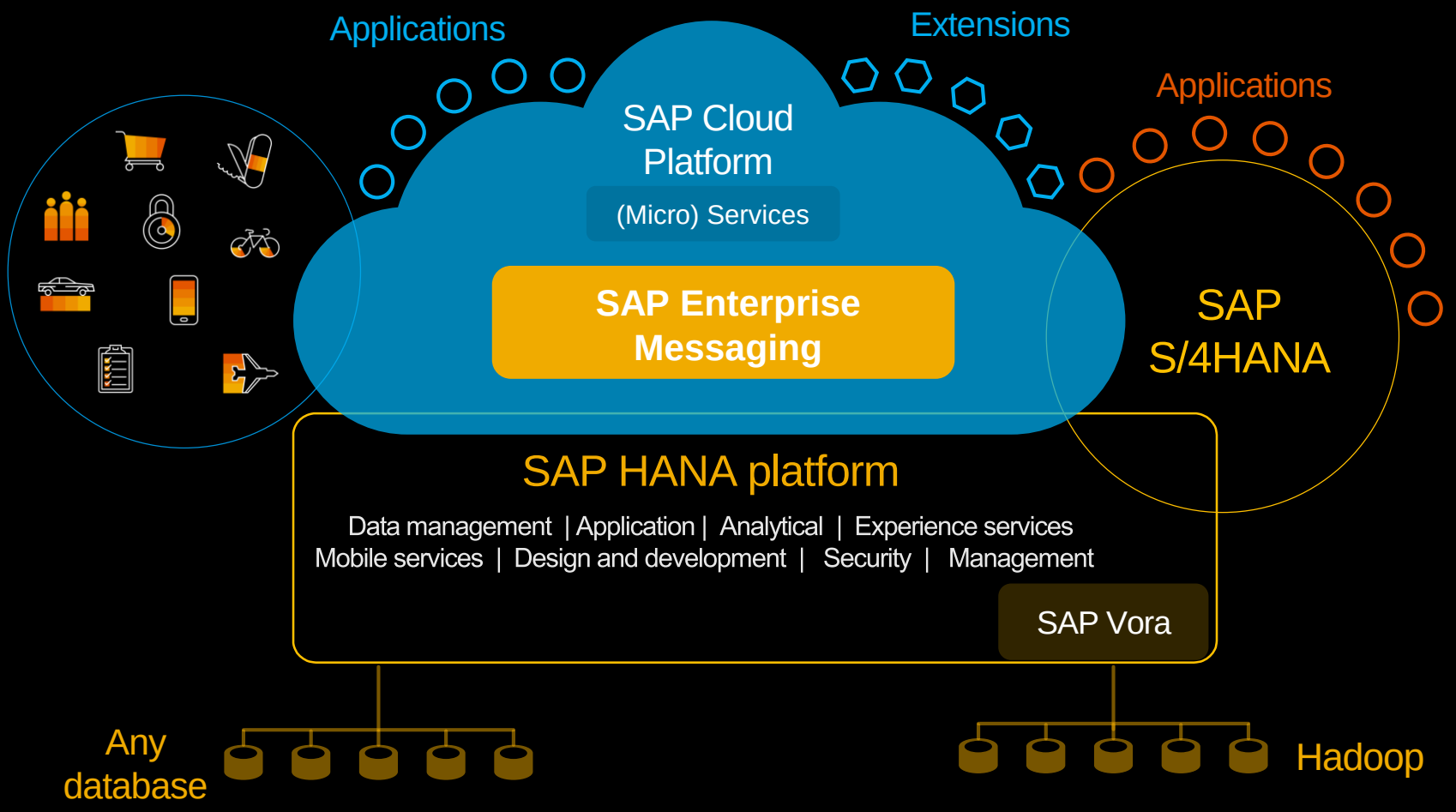
SAP Enterprise Messaging



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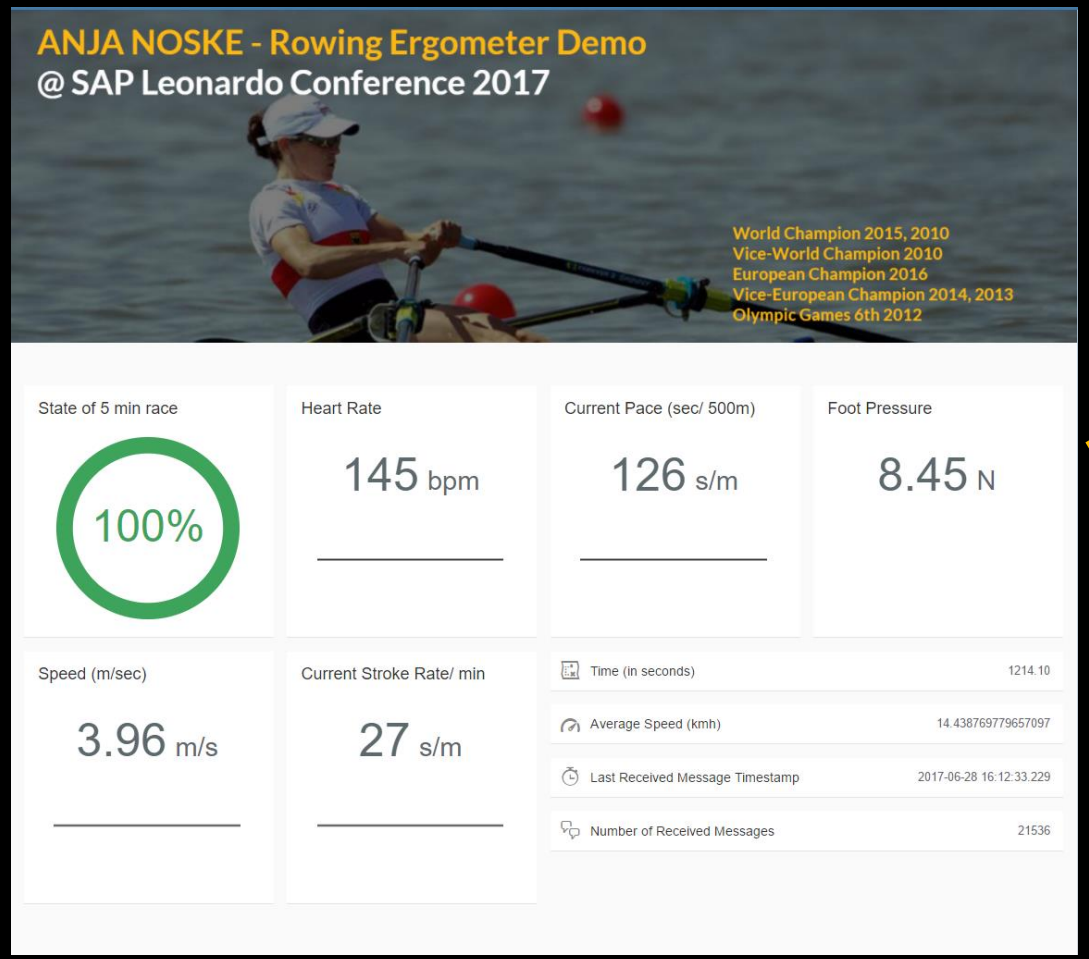
DEMO – Real-time dashboard with SAP Leonardo Internet of Things



Various types of sensor information

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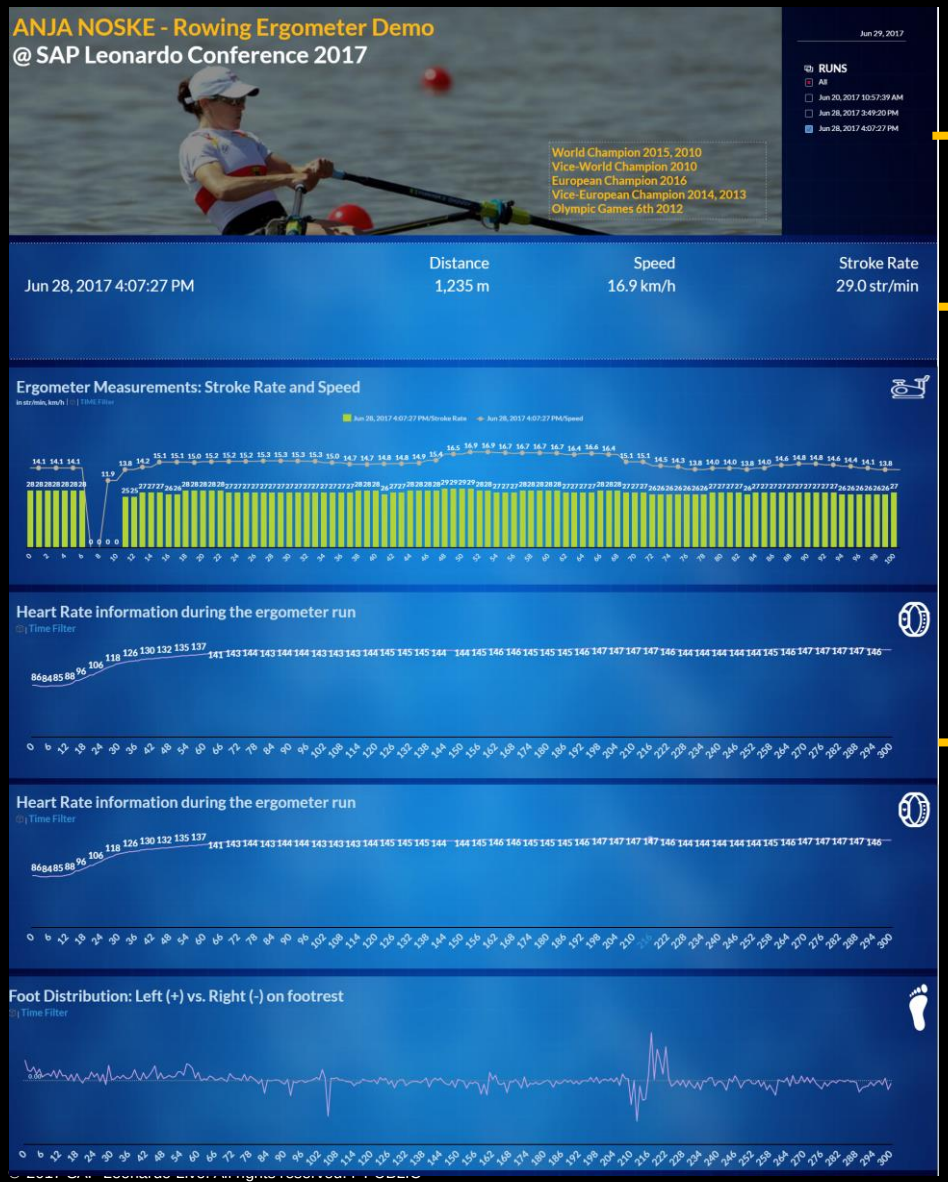
DEMO – Analytics with SAP Leonardo Analytics



Select the runs you want to compare

Average values

Split each KPI for pattern recognition

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Takeaways

- The IoT is a key success factor in competing on a world-class level.
- DRV considers SAP to be a trusted partner for long-term approaches (next two Olympic cycles)
- SAP Leonardo offers a combination of machine learning, PaaS, analytics, IoT, Big Data, and blockchain.

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Thank you.

Contact information:

Markus Richter
Innovation and Research for Sports and Entertainment, SAP
Markus.richter@sap.com

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