ORTEC Load Optimization

ORTEC
OPTIMIZE YOUR WORLD

Does this describe your situation?

- Freightmanagement is an essential competitive differentiator and cost factor

- Complex and large variety of package items

- Inaccurate or unclear information about needed shipping and transportation capacity for any orders

- Lack of 'load planning' experts

- Time-consuming manual load planning

- Frequent changes require re-planning

ORTEC
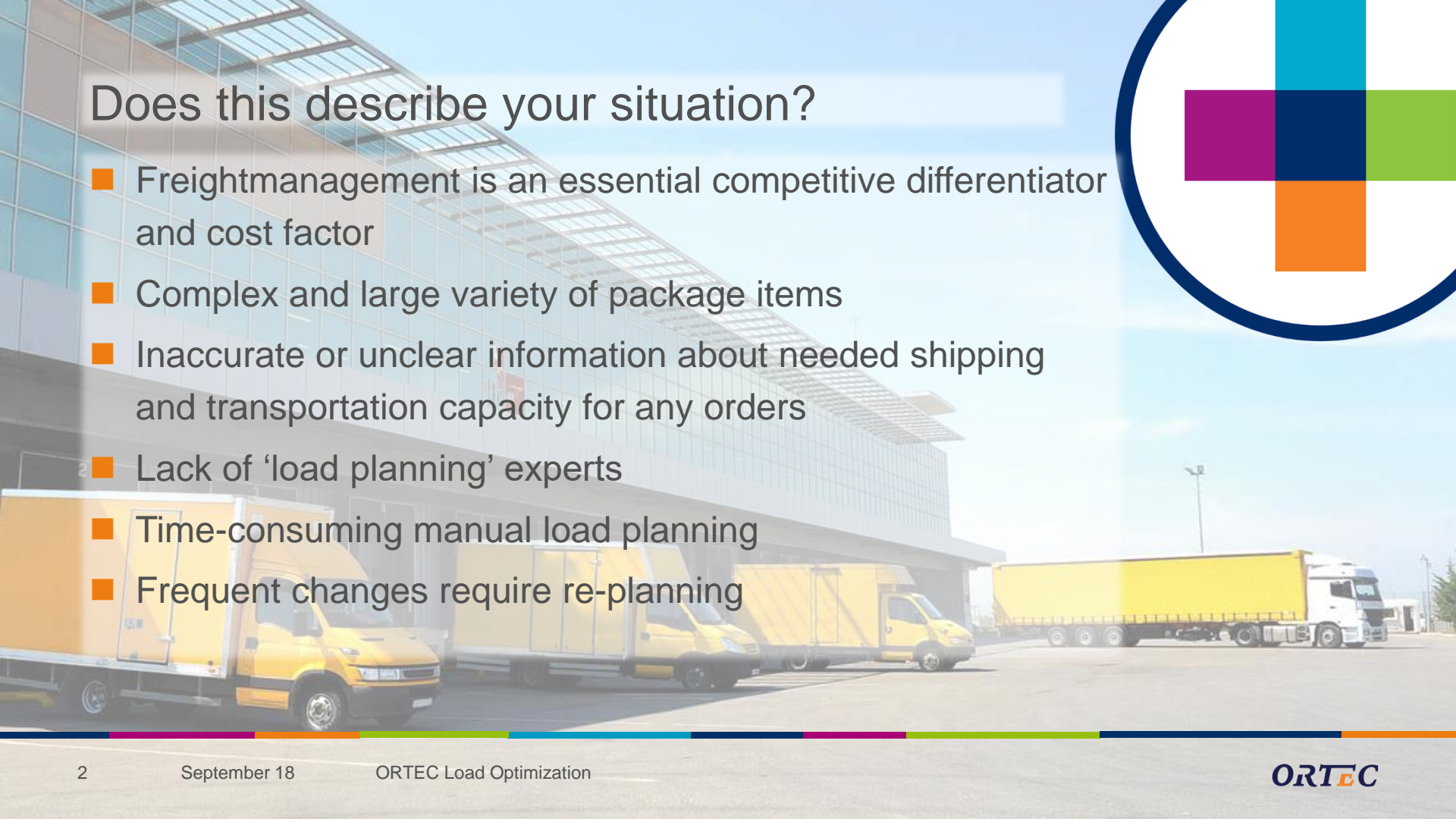
Do you notice this?

- Inefficient loaded trucks using inaccurate 'safety' factors in load planning
- Ad-hoc extra costs caused by wrong/incorrect load planning
- More different products/package items
- Damaged package items or complex loading/unloading
- Raising expectations of Customer service level
- Lack of load planning specialists

ORTEC

ORTEC Load Optimization

- Mathematical **optimization** determines and optimizes the load plan
- Unique **highly configurable** Solver
- 3D Load Diagram **in seconds** for review
- **Re-plan** at any time
- Available in **different variants** for optimal support of different business processes
- ‚Plug & Work' -> **Software-as-a-Service**
- **Unlimited** optimizations, users, plans
- **Collaborate** with Supply Chain Partners
- **Value-Driven** Pricing

ORTEC

ORTEC Load Optimization

Softwaredemonstration (Example 'Sales')

- How to access the product

- How to manage Package information

- How to manage Means of Transport information

- How to run an Optimization

- How to view a Solution

- How to share the Solution

SIGN IN

ORTEC

ORTEC Load Optimization

Technology

Browser

ERP, WMS,...

Internet

Microsoft Azure

ORTEC Load Optimization

ORTEC

ORTEC Load Optimization

Benefits

❶ Productivity

❷ Quality

❸ Standardization

ORTEC

ORTEC Load Optimization

Software-as-a-Service

- Transparent, business-oriented pricing metrics

- Alternative pricing models: Flat rate or Pay-per-Use

- Unlimited Users, Packages, Means of Transport, Optimizations*

- Technical Support

- Lower TCO compared to On-Premise

ORTEC

ORTEC Load Optimization

Why ORTEC?

- **Best-in-class** optimization **algorithms** with ORTEC's more than 35 years of experience in packing and loading optimization

- Achieve a **higher productivity** in planning and realize **freight cost reductions** by better utilization from the first use of the software

- **No investments** in software licenses or additional IT infrastructure required, low operational costs – Flexible subscriptions either 'flat rate' or in the 'pay-per-use' plan as Software-as-a-Service managed by ORTEC

- All web applications are designed to **optimize User experience and productivity** and can run at any PC **without additional installations** in the most commonly used internet browsers.

ORTEC

ORTEC Load Optimization

What's next?

- **Explore** provided information

- **Evaluate** opportunities in your company

- **Ask** questions, we are happy to help

- Let us help you, to create your individual **Business Case**

- Discuss the option of a **Value Assessment** study with us

- Try the system with a **Free-Trial access**

- **Benefit** from using ORTEC Load Optimization

ORTEC

ORTEC

OPTIMIZE YOUR WORLD

Stefan Althoff

Senior Product Manager

ORTEC GmbH

Im Breitspiel 11

69126 Heidelberg

Germany

Tel. +49 162 2938 356

+ 49 421 960 390

stefan.althoff@ortec.com

www.ortec.com

ORTEC

ORTEC Load Optimization

Additional information

Product family ORTEC Load Optimization

```
                  ┌─────────────────────────────────────┐
                  │   ORTEC Load Optimization for…       │
                  └─────────────────────────────────────┘
```

| Sales | Purchasing | Replenishment | Warehouse | Transportation |
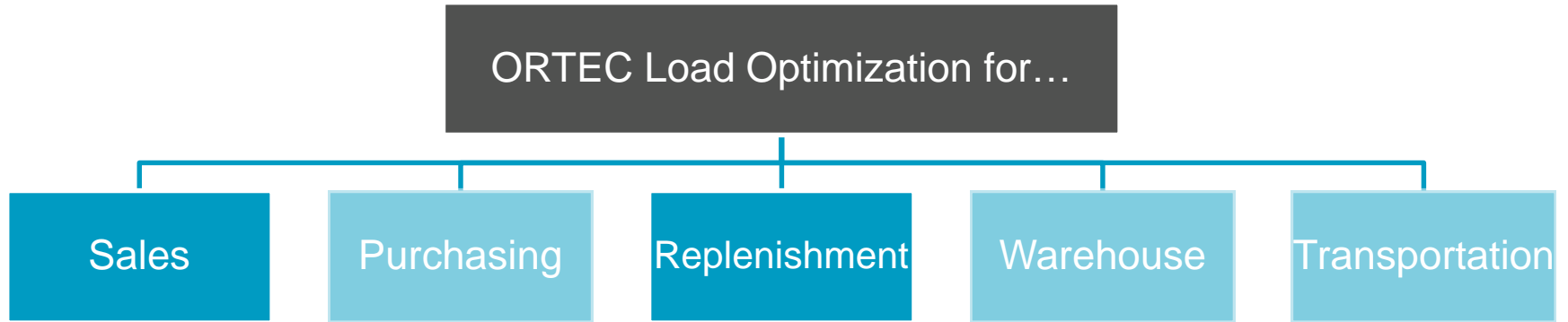
ORTEC

ORTEC Load Optimization for Sales

Highlights

- Easy and fast conversion of any quotation or order quantities into ‚logistics units' in the hand of any Customer Service Representative (CSR)

- Optimized packing and loading for maximum resource utilization (cartons, boxes, pallets, container, trucks,…)

- Support CSR in simulating ‚order sizing' to create ‚efficient' loads (fill up/split) at time of order entry

- Simple sharing of solutions with warehouse, carrier, customer via hyperlink

- Standardized system integration for your business software

ORTEC

ORTEC Load Optimization for Sales

Release 1.0: Supported usage scenarios

- Optimized loading of packages into means of transport
- Designed for use in combination with ERP/SCM system
- Optimization of single or multiple sales documents
- Flexible data management for planning specific data for Packages, Means of Transport
- Standard API for seamless data integration and optimization

ORTEC

Web Applications

‚Data Management‘

- Maintain the relevant information for Packages and Means of Transport for Loading
  - Dimensions, Rules & Instructions, Capacities, Means of Transport Combinations, etc.
- Data can optionally be provided with every single optimization request fully or partially from a Third-party software, the system will automatically extend missing data in the request from the Data Management

ORTEC

Web Applications

‚Data Management'
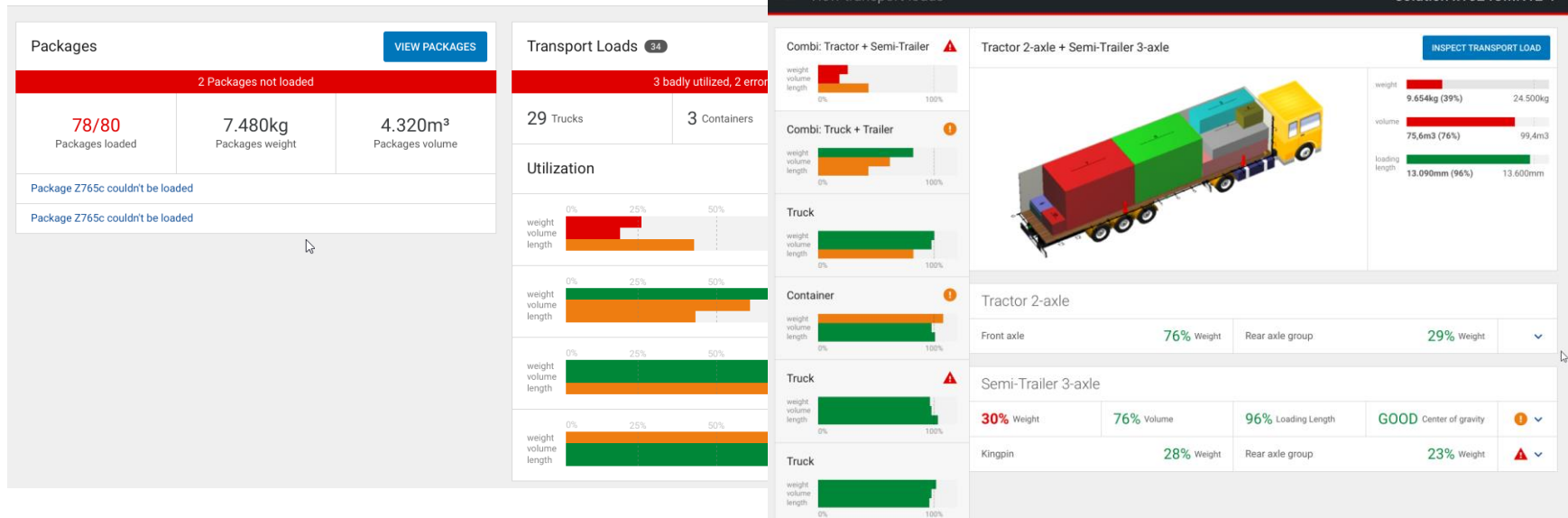
Web Applications

‚Solution Viewer'

- Understand the Solution of a Plan

- Get an overview of the loading status of all Package Items and the Transport Load quality

- View individual Transport Loads with their KPI and the arrangement of the Packages in the Means of Transport

- Inspect Transport Loads in Detail with an interactive 3D Graphic
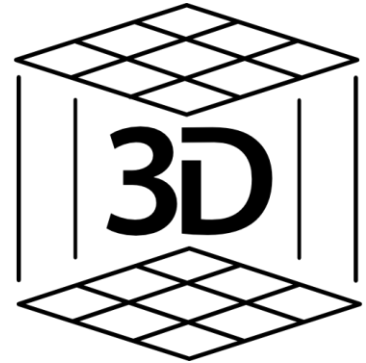
Web Applications

,Solution Viewer'

System integration

Application Programming Interface (‚API')

- RESTful (‚Representational state transfer')

- Stateless, Asynchronous

- HTTPS

- Integration Guide
    - API Documentation
    - Step-by-Step Integration Scenarios with Code Snippets

ORTEC

Cloud Platform: Microsoft Azure

Security, Compliance and Privacy

- ORTEC Load Optimization is provided with Microsoft Azure
- Most comprehensive set of compliance offerings (incl. certifications and attestations) of any cloud service provider
- For more information, please visit
    - https://www.microsoft.com/en-us/trustcenter
    - https://www.microsoft.com/en-us/trustcenter/cloudservices/azure

ORTEC

Selection of customers of Load planning and optimization

ORTEC