

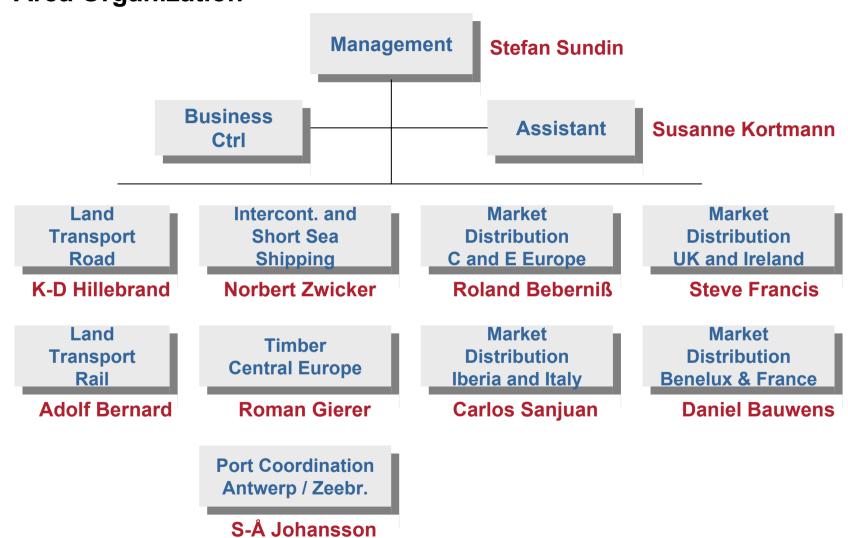
# Responsibility & Performance

**Stora Enso Transport and Distribution** 

SETD Continent and UK Organization

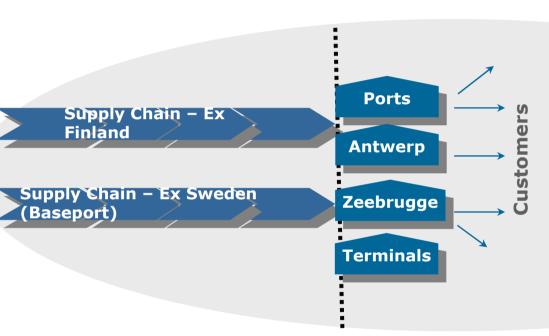
## **SETD Continent and UK Area Organization**





### SETD Continent and UK – Zeebrugge office Market Distribution Benelux and France





**Market Distribution Manager** 

- Daniel Bauwens

Logistical Reporting & Administration

Nele Merlevede

**Logistic Analyst** 

- Sjaak Holtrust (30%)

Logistical Coordination & Transportation Claims Handling

- Dona Poels

**Claims Handling Assistants** 

Daniela Kern and Petra De Gryse

**Port Coordination** 

- Sven-Åke Johansson

**Product Care** 

- Kris Dhondt

#### **T&D Business Coordination**

Contracting ports and inland Terminal services / distribution services.

#### Mill and Sales Support

- Optimal distribution set-ups
- Customer service concepts
- Stock checks and inventories
- Claims Administration
- General logistical support

#### Performance measurement

- Damage reporting
- Delivery performance
- Quality follow up
- IT related matters



# Responsibility & Performance

**StoraEnso Transport and Distribution** 

Sven-Ake Johansson 11th April 2005

#### Zeebrugge 2004



Total Volume 1.905.000 Tonnes

Transit 600.000 Tonnes

Local 264.000 Tonnes

Overseas 801.000 Tonnes

Pulp 240.000 Tonnes



#### **Overseas**



N° of containers stuffed

Stuffed

Breakbulk: n° of ships stuffed

Breakbulk: stuffed

16.000 containers

**726.000 Tonnes** 

23 vessels

**75.000 Tonnes** 



Intermediate storage 1-3 weeks in Zeebrugge







# Responsibility & Performance

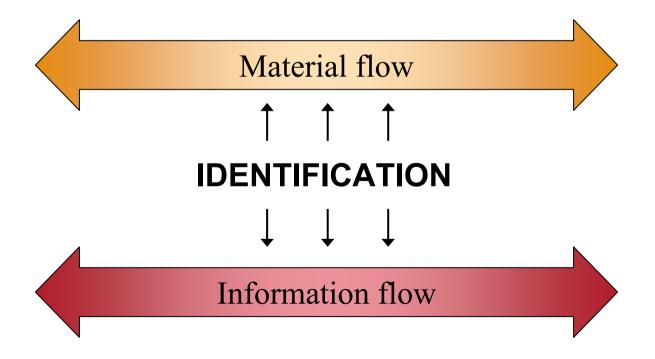
#### Unit identification

Jaakko Tuomainen/ Sven-Ake Johansson Gothenburg 11th April 2005

### Identification, what it is?



- Interface or connection between material and information flows
- All information is typically not in the identifier, but it is queried from a data system – identifier is the key for this query



### Why unit level identification?



- Unit level identification = every item is identified separately
  - Compare to: order level / batch level identification
- Better supply chain visibility
  - Real-time unit level information
  - Status and location information of all reels and pallets
- New supply systems will change transport planning, e.g. NETSS
  - Orders are transported in SECU:s in smaller batches
  - Orders are combined in local distribution centres (LDC)
  - Unit level identification is a must issue!

#### Benefits of unit level identification



- Better customer service and quality
  - Less errors in supply chain (handling, shipping)
- Economical benefits
  - Savings in lower tallying costs and faster process
  - Lower inventory levels
  - Faster delivery time
- Better supply chain visibility enables new customer service solutions
  - E.g. pipeline planning / vendor managed inventory

## Technologies of automatic identification (paper reel ID)



- RFID = Radio Frequency IDentification
  - HOT topic in supply chain management
  - Technology is still under development: read range not enough for paper reels, lack of standardisation, relatively high costs
- Bar code
  - Proven and robust technology, equipment widely available
  - Enables reel and pallet identification in efficient way
- Bar code is currently the best option for paper reel identification
  - RFID may enter after some 2-5 years
- Also human readable identifier needed: labels will exist

#### Identification of reels: belt bar code



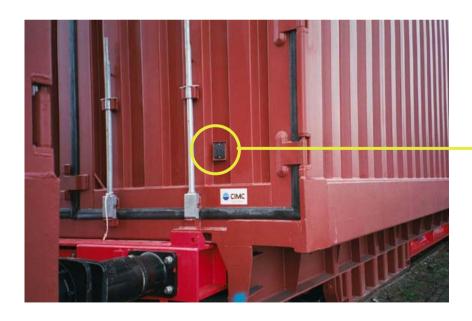
- Printed directly on the reel wrapping paper
- Reel can be identified from every direction (vs. label)
- Has been used in Sweden almost 10 years
- Implemented in all Stora Enso Finnish mills by June 2005
- Belt bar code is read every time when the reel is handled



#### Identification of SECUs: RFID



- SECUs are identified with the help of RFID technology
  - Active tags on microwave frequency
- Every SECU is equipped with two RFID transponders (tags)
  - One transponder on each head of the container

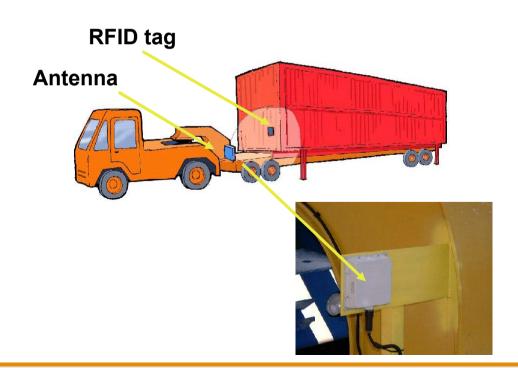




#### **SECU** identification



- SECU is identified every time when it is moved
  - Readers are installed in tug masters
  - Read range about 3 meters

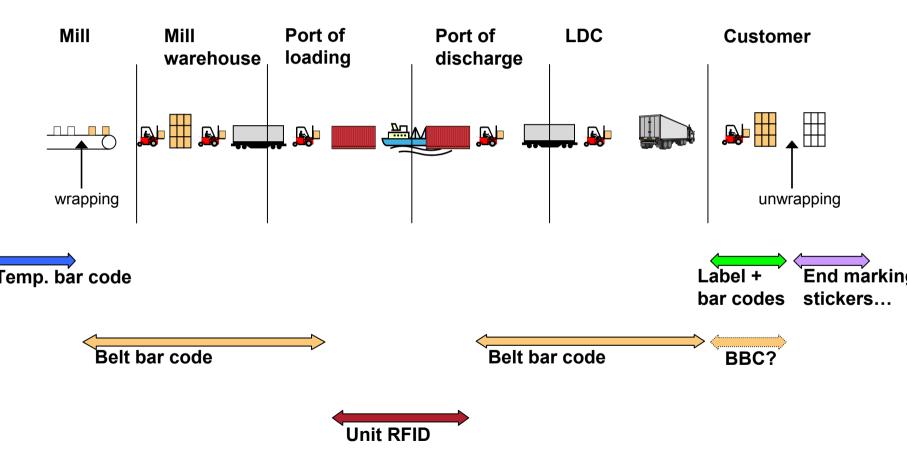




**Antenna** 

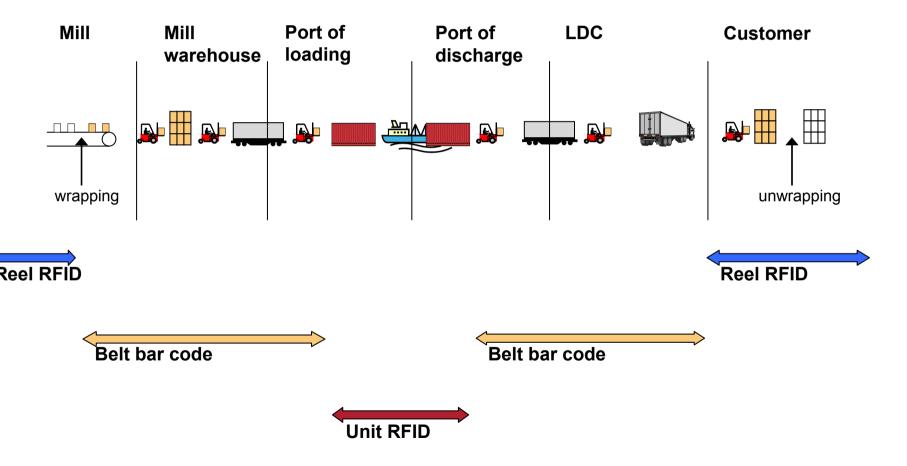
## Identification in paper supply chain: STORAENSO Today





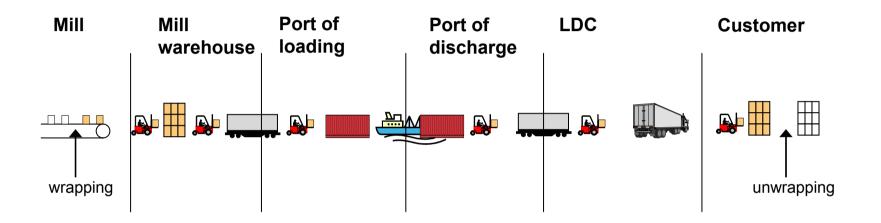
## Identification in paper supply chain: STORAENSO Next step (2 years??)





## Identification in paper supply chain: STORAENSO Future (over 5 years??)





**Reel RFID** 

**Unit RFID** 

**Reel RFID**