

RFID Food and Pharmaceutical Packaging

by

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CFDR

Development in “smart packaging”

**Food Industry
and
Pharmaceutical Industry**



Food Industry

2003

New RFID lab given by Franwell

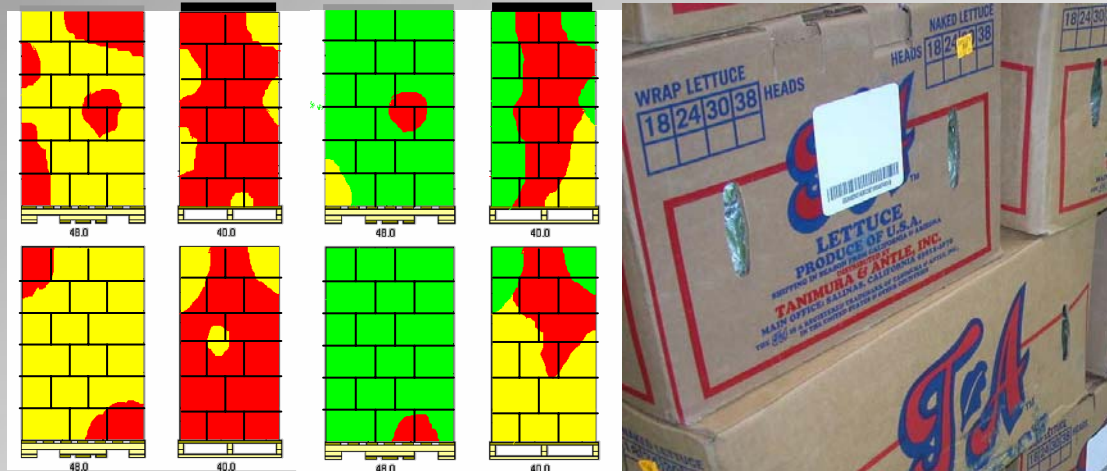
Effects of Products and Packaging Materials



Food Industry

2004

First tests on produce with T&A and FreshExpress
Coast-to-Coast, tag location, speed of the load



Food Industry

2005

Compare Corrugated versus
Plastic and Wirebound wooden crates



Food Industry 2005

Falling Tags !



Food Industry

2005

Embedding RFID tags on RPC

- try to reduce cost per use with RFID
- always tracking the life of the RPC



RFID Tag



Food Industry

2005

Embedding RFID tags on RPC

- During injection molding process
- Cannot be removed

RFID Tag



Food Industry

2005

Embedding RFID tags - injection molding

- Smaller containers**
- More challenging**



Food Industry

2005

Embedding RFID tags - injection molding

- Nature of the products**
- Redesign the container – Read Rate**



Food Industry

2006

Embedding RFID tags - injection molding

- Looking for smaller antenna design**
- Read at 6” to 12 “ only**



Pharmaceutical Industry

2006

Embedding RFID tags –

- Prescription Drugs (blow-molding)
- Blood products
- Packaging components



Conclusion

RFID Tags can be part of a package

**Food Industry will benefit from new
“smart technologies” using
embedded RFID tag packaging**

**Pharmaceutical Industry can
associate content with package even
if label removed**

