

NISS D.O.O.

ISI/ATHENA RC

FTTE

- ▶ Why FTTE?
- ▶ Opportunities
- ▶ Challenges

FTTE Application

- ▶ Idea
- ▶ Solution
- ▶ Contribution to the community
- ▶ Matchmaking - Greece institute - ISI/Athena
- ▶ Organization

Motivation

- ▶ The delivery of fresh and healthy quality animal husbandry products, such as milk and meat, mandates the continuous monitoring of the environmental conditions under which these products are stored and transported

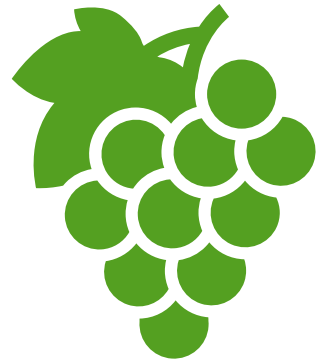
RFID Solutionios

- ▶ **Minimization of the energy consumption** of the temperature monitoring sensors integrating the RFID technology, while it will increase cold chain monitoring efficiency during transportation
- ▶ **RFID is its ability to identify objects wirelessly without being in their line-of-sight.** Using this technology for tracing or locating objects in the cold supply chain increases its efficiency, quality and reduces the number of errors

TempSense services

- ▶ This FTTE will provide the following services:
 1. 24/7 data recording and collecting
 2. Accessing data from anywhere
 3. Automatic alerts for critical temperatures changes
 4. Temperature fluctuations tracking
 5. Location tracking of goods during the whole supply process
 6. Automatically generating reports including analysis of trends for decision support

Collaboration



NISS made an experimental proof of concept with system that traces food and information from the beginning to the end of the cold supply chain with the ability to precisely measures temperature.



ISI has developed RFID tagging system for trace products and materials on the manufacturing processes

FTTE Experiment

- ▶ TempSens FTTE will include following operations:
 - ▶ positioning of RFID antennas in transport trucks and storage spaces
 - ▶ installing of RFID on products packages
 - ▶ installing of data processing room (servers and communication devices)

How TempSens works



Thank you!