

Intelligent packaging

Principles

Smart packaging is designed to interact with the product it contains and inform about some aspect related to it. In this sense, it can provide information on its state of conservation, transport conditions, etc.

Within the framework of the Shealthy project, a specific type of smart packaging is being developed, which detects the presence of ethylene. Ethylene is a gas naturally produced by fruit during ripening and is also used in post-harvest treatments to accelerate ripening in unripe fruit. The indicator developed in the project will provide visual information on the amount of ethylene to which the product has been exposed and therefore, indirectly, on its state of ripeness.

Benefits



Product condition tracking per unit



Economic



Easily interpretable



Easy to use



Challenges

- Tailor-made development
- Limited sensitivity