





Module 4 – Conflict Resolution in the Agro-food sector

Topic 2: Digital transformation and active listening

SESSION 1

“ Introduction

Digital transformation has impacted each and every sector and industry, including the agro-food and waste management.

In this session, we are going to have a general overview over the **means and objectives** of this digital transformation in the agro-food sector and the **role of apps and smartphones** during the process.





Outline

A- Digital transformation in agriculture – an overview

B- The role of apps and smartphones

An aerial photograph of a small, white boat with a blue cabin, floating on a vast expanse of dark blue, textured water. The boat is positioned on the left side of the frame, leaving a small wake behind it.

A- Digital transformation in agriculture



A- Digital transformation in agriculture

6.7 billion invested over the past 5 years

In advanced farm machinery that allowed the cultivation of wider areas.



A- Digital transformation in agriculture

6.7 billion invested over the past 5 years

Farming automation or smart farming including automated mowers and robots.



A- Digital transformation in agriculture

6.7 billion invested over the past 5 years

In artificial Intelligence and automation



A- Digital transformation in agriculture

6.7 billion invested over the past 5 years

Informatics and information systems



A- Digital transformation in agriculture

6.7 billion invested over the past 5 years

Aerial vehicles (UAVs), programmable drones, and satellite imaging.



A- Digital transformation in agriculture

6.7 billion invested over the past 5 years

Integrated devices and monitors



A- Digital transformation in agriculture

6.7 billion invested over the past 5 years

Automated weather prediction, especially in the age of global warming.



A- Digital transformation in agriculture

6.7 billion invested over the past 5 years

Temperature and climate sensors and detectors,



A- Digital transformation in agriculture

Objectives

To be able to detect any problem at its earliest stages and solve it in a timely manner.



A- Digital transformation in agriculture

Objectives

Using less irrigation, insecticides and fertilizers, leading to a decrease in the food price.



A- Digital transformation in agriculture

Objectives

Sustainability and resilience for both crops and livestock.



A- Digital transformation in agriculture

Objectives

Sustainability and resilience for both crops and livestock.



A- Digital transformation in agriculture

Objectives

To reduce negative effects on natural habitat and lower chemical discharges in the rivers.



A- Digital transformation in agriculture

Objectives

To have more control over the whole process which results in higher productivity and cheaper costs.

An aerial photograph of a sailboat on a dark blue, textured body of water, positioned on the left side of the slide.

B- The role of Apps and Smartphones



B- The role of apps and smartphones

Staying connected

Thanks to IoT technologies, farmers can receive early alerts about anything related to their crops.



B- The role of apps and smartphones

Staying connected

Farmers can even monitor their livestock temperature and heartbeat and detect early signs of infections.



B- The role of apps and smartphones

Staying connected

Farmers can even monitor their livestock temperature and heartbeat and detect early signs of infections.

Thank you



Contact us

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