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“Best Innovative Approach to Minimize Post Harvest Losses within Food Chain for VET”



[POSTHARVEST]

Agreement Number: 2017-1-TR01-KA202-045709

Yıldıray ISTANBULLU

Central Research Institute of food
and Feed Control

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World population is expected to reach 9 billion in 2050 and in order to meet the food demand, food production must be **increased by 70 percent.**

Food availability and accessibility can be ensured by

- increasing production,
- improving distribution,
- reducing the losses.



Post Harvest Losses in the World

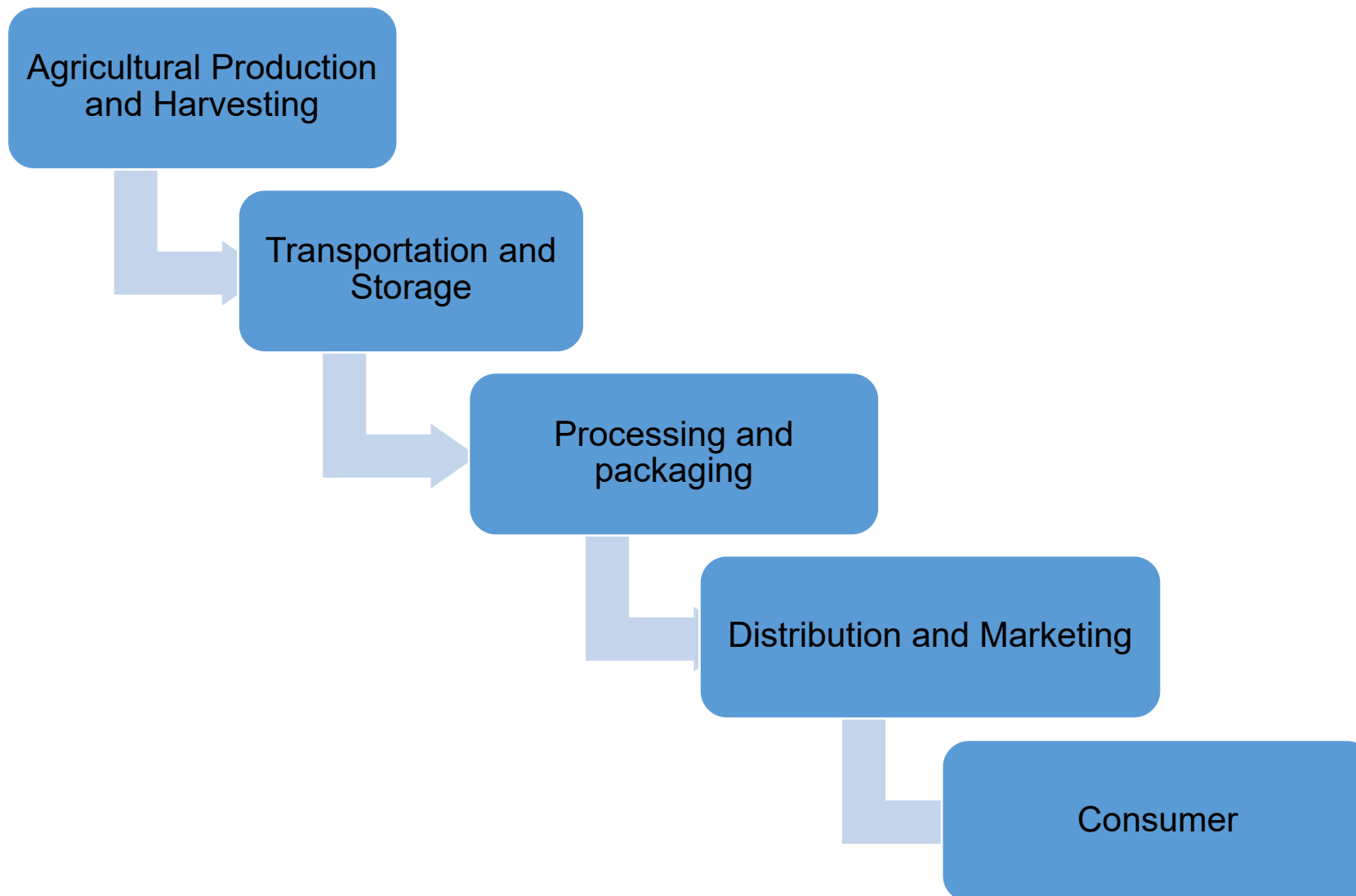
- According to FAO data, 32% of the food produced in the world is wasted.
- About 1.3 billion tons of food is lost annually



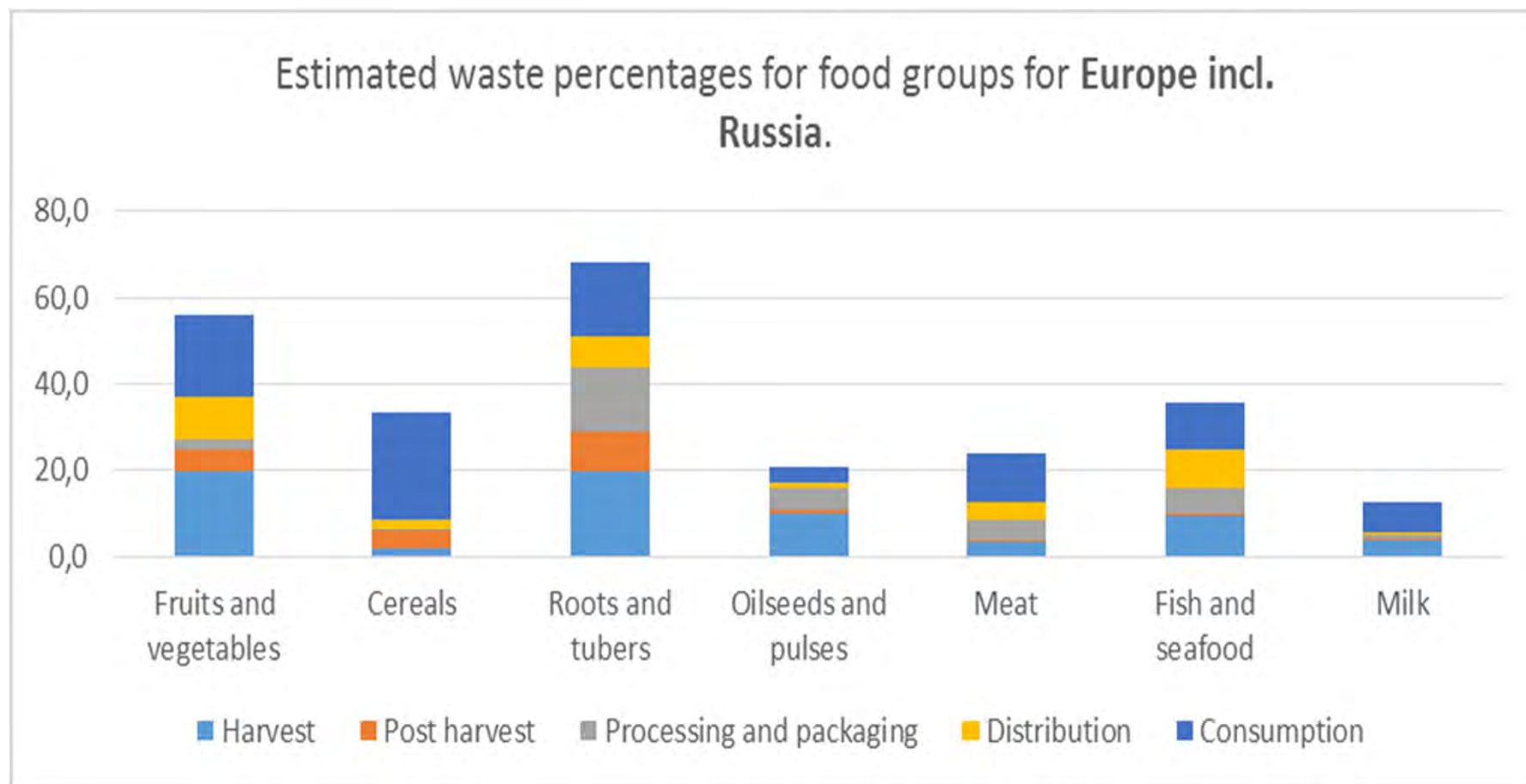
- **It is estimated that food losses can feed 870 million hungry people.**



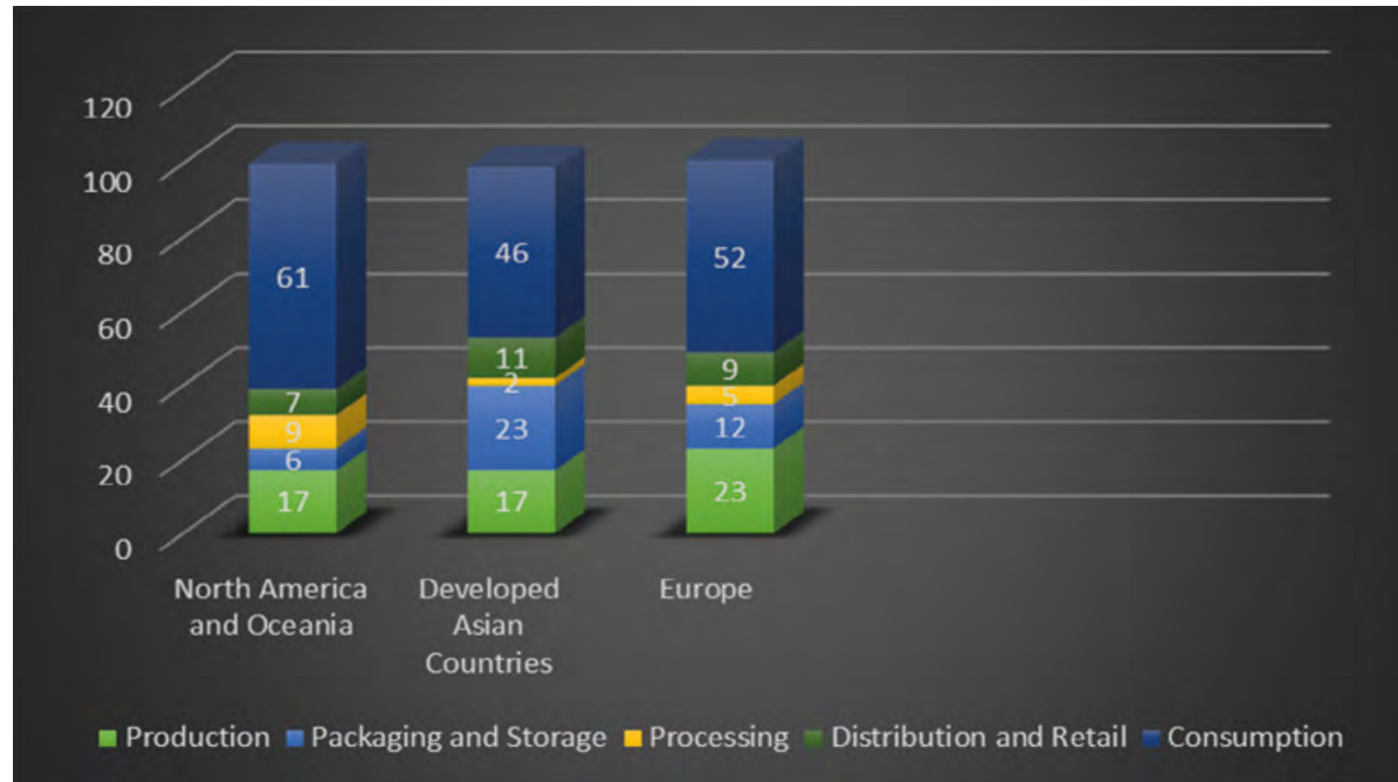
STAGES OF POST-HARVEST LOSSES IN FRUIT AND VEGETABLES



Percentage of losses in for food groups

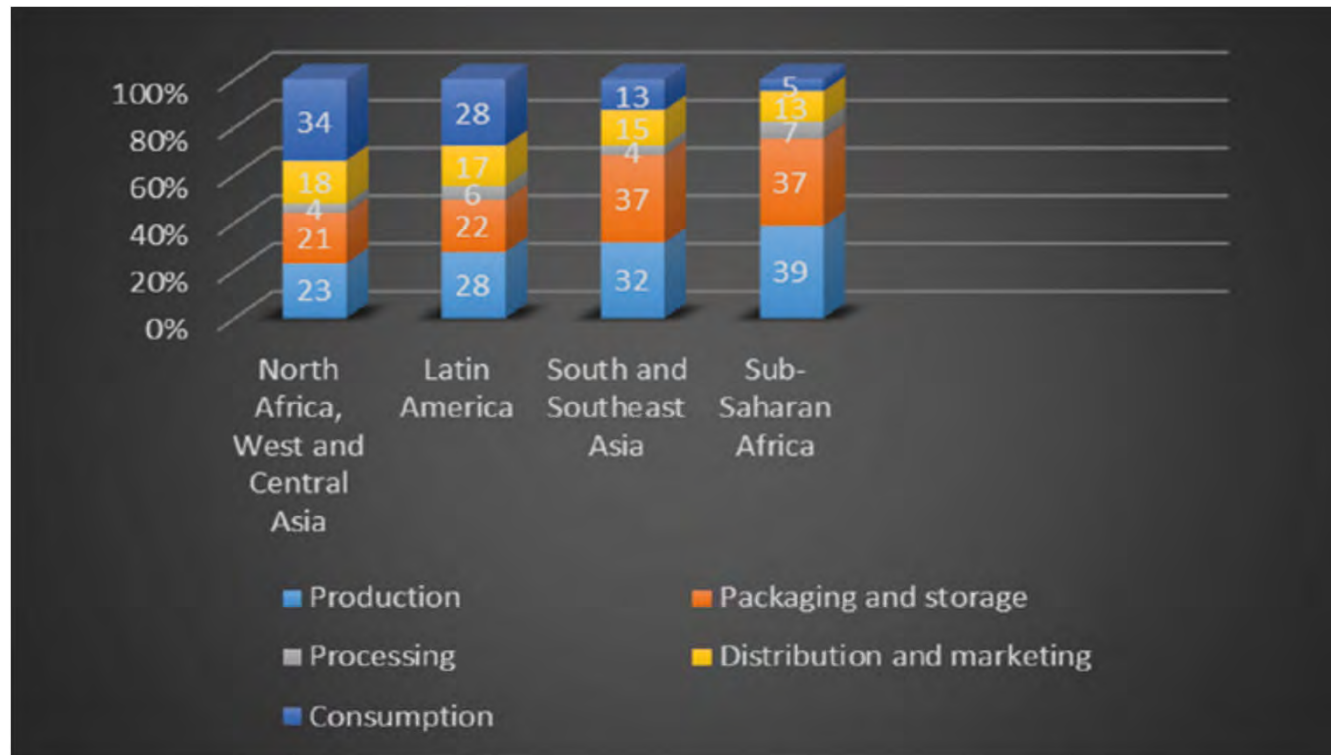


Post-harvest Losses in Developed Countries



More than 50 percent of food waste is taking place during the consumption phase, especially in Europe and North America

Post-harvest Losses in Developing Countries



Particularly in Southeast Asia and Sahara Africa, production and storage/packaging stages account for one-third and threethirds of post-harvest losses, respectively.

There is a need for qualified workers with knowledge and competence in the post-harvest sectors to reduce postharvest losses and to extend the shelf life of the products





[POSTHARVEST]

The goal of the Project is;

***to develop an educational package** that meets the requirements of vocational education in the field of post harvest sectors (food supply chain) to reduce post harvest losses and improve the quality, safety and marketability of selected horticultural products.

***to develop VET business partnerships** aimed at promoting work-based learning and to increase awareness of target group by using inclusive latest techniques.

***to create new innovative training materials** (methodologies, tools, Elearning materials and practices).





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“Best Innovative Approach to Minimize Post Harvest Losses within Food Chain for VET”

Project Acronym: [POSTHARVEST]

Agreement Number: 2017-1-TR01-KA202-045709

Programme: Erasmus+

Key Action: (KA2) Strategic Partnerships
Cooperation for innovation and the exchange of good practices

Action: KA202-Strategic Partnerships for vocational education and training / Development of Innovation





PARTNERS

- Central Research Institute of Food and Feed Control (Coordinator)
- General Directorate of Agricultural Research and Policies (GDAR, Turkey)
- Gaziantep University (Turkey)
- Bursa Metropolitan Municipality (TARIMAS, Turkey)
- Bursa Commodity Exchange (BCE, Turkey)
- ISEKI-Food Association (IFA, Austria)
- Dunerea De Jos University (UDJ, Romania)
- The National Technological Centre for the Food and Canning Industry (CTC, Spain)

Austria

Romania

Spain

Turkey



TARGET GROUPS



- Farmers
- Producer
- Wholesalers
- Transporter
- Retailers
- Professional groups working in the post harvest sectors
- Trainers and teachers in VET institutions
- Policy makers





Intellectual Outputs

- 1) Training Need Assessment & Country Survey Report**
- 2) Best Harvesting Techniques Training Material**
- 3) Best Storage & Transportation Practices Training Material**
- 4) Packaging Opportunities Training Material**
- 5) Sales Conditions in Retail and Wholesaler Market Training Material**
- 6) Food Losses Valorization Applications Training Material**
- 7) E-learning platform for vocational training**
- 8) Economic analysis report of postharvest losses for some fruits**
- 9) Marketing Opportunities of Fruits Training Material**
- 10) Curriculum**
- 11) Academic article**





**Six training materials available in five languages
(English, Turkish, German, Romanian, Spanish)**





E-learning platform for vocational training

← → × https://elearning.postharvestproject.com/?lang=en

Platform Access

Username

Password

[Log in](#)

[Forgot your username or password?](#)

[New account](#)

2017-1-TR01-KA202-045709
Best Innovative Approach to Minimize Post Harvest Losses within Food Chain for VET

Available courses

<p>2017-1-TR01-KA202-045709 POST HARVEST PROJECT E-LEARNING</p> <p>Best Innovative Approach to Minimize Post Harvest Losses within Food Chain for VET – Overview</p> <p>Access</p>	<p>2017-1-TR01-KA202-045709 POST HARVEST PROJECT E-LEARNING</p> <p>Best Harvesting Techniques</p> <p>Access</p>	<p>2017-1-TR01-KA202-045709 POST HARVEST PROJECT E-LEARNING</p> <p>Packaging Opportunities Training Material</p> <p>Access</p>	<p>2017-1-TR01-KA202-045709 POST HARVEST PROJECT E-LEARNING</p> <p>Best Storage and Transportation Practices</p> <p>Access</p>
<p>Marketing Opportunities of Fruits</p> <p>Access</p>	<p>Food Losses Valorization Applications</p> <p>Access</p>		





Dissemination Activities

- ISEKI_Food 2018, Germany 3-5 July 2018
- Transnational Eco-Event / Slovenia - 17 October 2018
- International Scientific Congress / Romania – 18-19 October 2018
- "Fig Garden Day" activity in Turkey September 13, 2018
- Information Events about" Marketing Opportunities of Fruits Education Material Bursa, Turkey 08.10.2018
- 6th International Conference Sustainable Food and Postharvest Technologies-INOPTOP 2019 in Serbia
- ISEKI_Food 2018 1st International Conference on Innovation in Food Ingredients&Food Safety -Thailand/ 12-13 September 2018





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Thank you!



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