

# Food Economy 4.0 – development timeline



	The present	2–5 years	5–10 years
<b>From mass production to individual solutions</b>	<p>Printed electronics as part of the packages</p> <p>Store platforms coordinating online orders</p> <p>Coffee vending machines, salad bars, personalisation as a physical service</p> <p>My Data services</p>	<p>Product tracking technology</p> <p>Store platforms coordinating orders and flexible distribution</p> <p>Integration of intelligent packages and refrigerators</p> <p>Package as a digital content medium</p>	<p>Next-generation personalising manufacturing technologies</p> <p>Online food consumption tracking technologies</p> <p>Automatic nutrition trackers</p>
<b>From centralised to agile manufacturing and distribution</b>	<p>Local distributors and producers offer products directly to consumers or large retailers</p> <p>Development of raw material and product history tracking technologies</p> <p>Store bakeries</p>	<p>Cooperation in order to reduce logistics and resource costs</p> <p>Agile production and store platforms</p> <p>New intelligent and flexible packaging technologies</p>	<p>Functional logistics of distributed and modular processes</p> <p>Distribution of production, distribution and consumption infrastructures</p> <p>Robotised food manufacturing and distribution</p>
<b>From horizontal to vertical food production</b>	<p>New plant ingredients and development of foods based on them</p> <p>Further refining of side streams</p>	<p>New plant species and insect economy</p> <p>Usage technologies for new raw materials</p> <p>Closed nutrient and material cycles</p>	<p>Food production not dependent on fields, biotechnical and vertical technologies</p> <p>Substrate development</p> <p>Waste-free ingredient and food processes</p>