

# Sustainable food systems – how agricultural education should respond?

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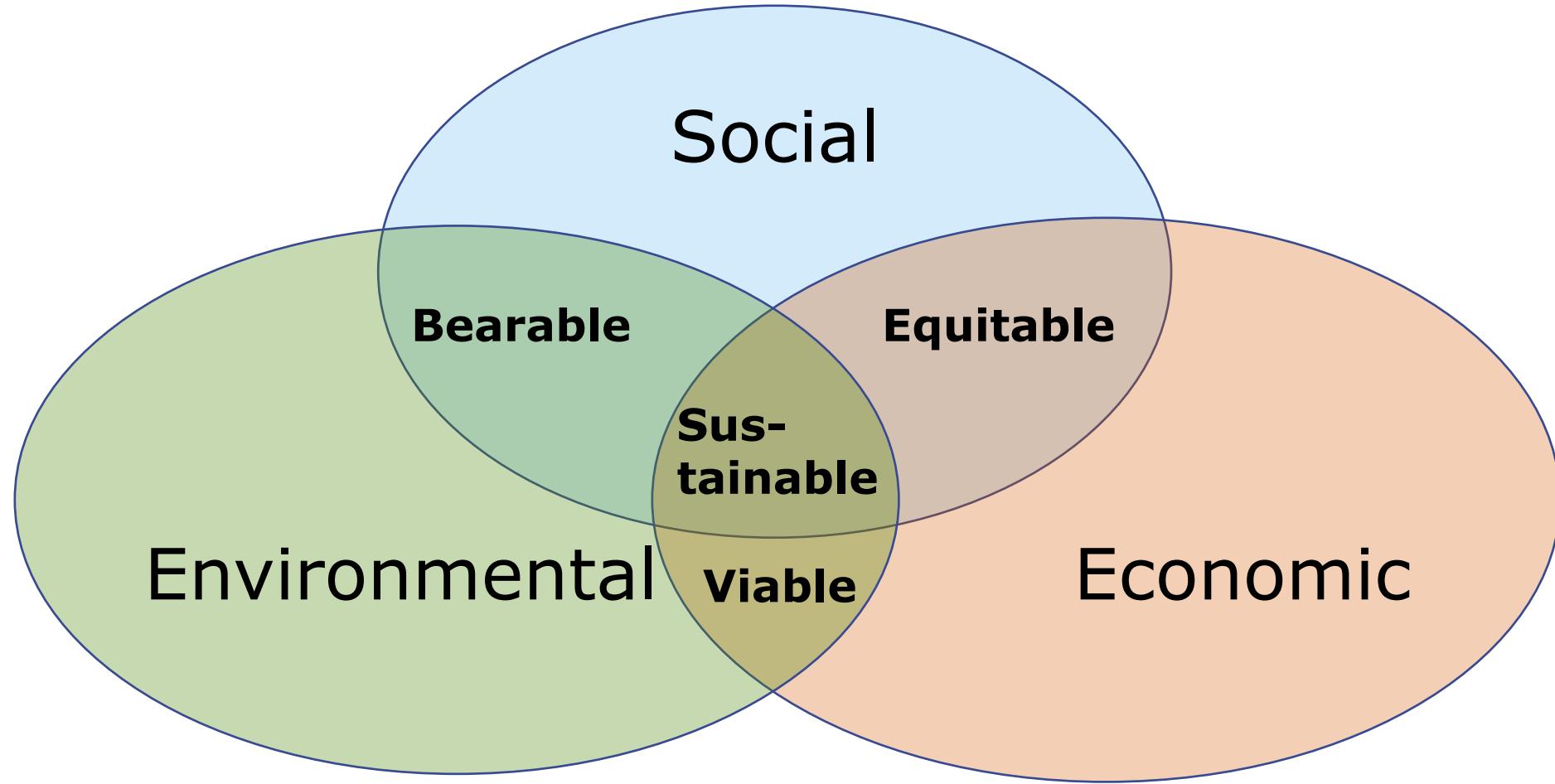
Farmer



Co-funded by the  
Erasmus+ Programme  
of the European Union



# Sustainability dimensions



SAVONIA



# SUSTAINABLE DEVELOPMENT GOALS



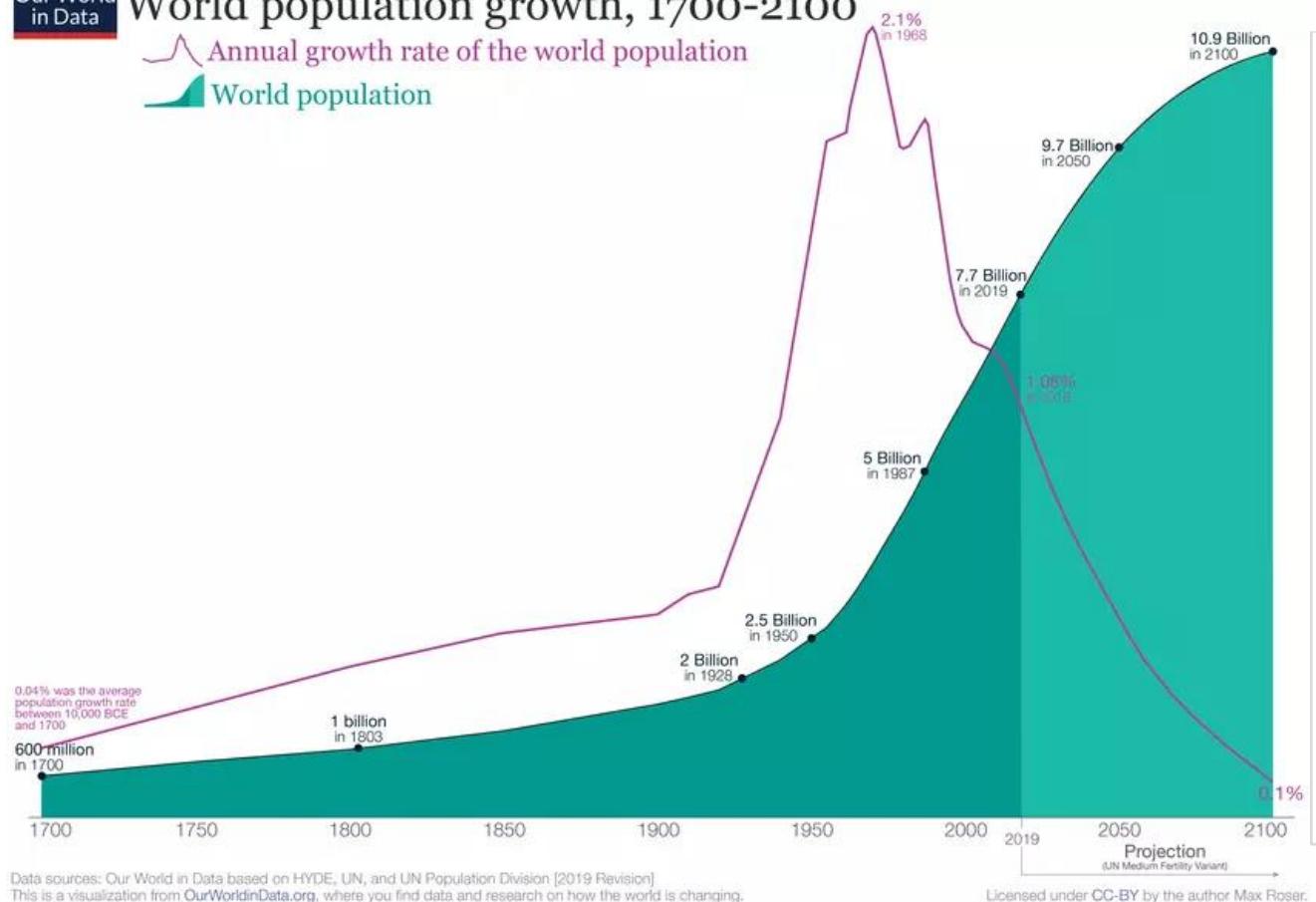
|   |   |   |   |   |   |
|---|---|---|---|---|---|
| <p><b>1</b> NO POVERTY</p>                   | <p><b>2</b> ZERO HUNGER</p>                      | <p><b>3</b> GOOD HEALTH AND WELL-BEING</p>               | <p><b>4</b> QUALITY EDUCATION</p>                          | <p><b>5</b> GENDER EQUALITY</p>                      | <p><b>6</b> CLEAN WATER AND SANITATION</p>               |
| <p><b>7</b> AFFORDABLE AND CLEAN ENERGY</p>  | <p><b>8</b> DECENT WORK AND ECONOMIC GROWTH</p>  | <p><b>9</b> INDUSTRY, INNOVATION AND INFRASTRUCTURE</p>  | <p><b>10</b> REDUCED INEQUALITIES</p>                      | <p><b>11</b> SUSTAINABLE CITIES AND COMMUNITIES</p>  | <p><b>12</b> RESPONSIBLE CONSUMPTION AND PRODUCTION</p>  |
| <p><b>13</b> CLIMATE ACTION</p>            | <p><b>14</b> LIFE BELOW WATER</p>              | <p><b>15</b> LIFE ON LAND</p>                          | <p><b>16</b> PEACE, JUSTICE AND STRONG INSTITUTIONS</p>  | <p><b>17</b> PARTNERSHIPS FOR THE GOALS</p>        |  <p><b>SUSTAINABLE DEVELOPMENT GOALS</b></p>            |

# How to feed the world?

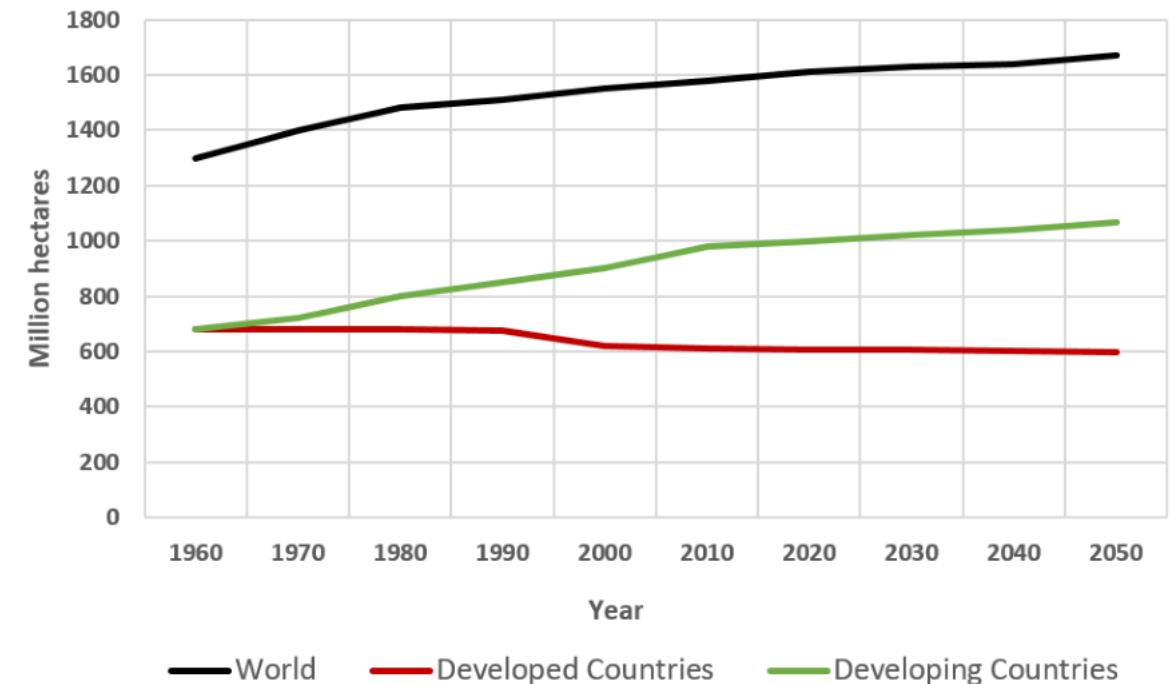
## World population growth, 1700-2100

Annual growth rate of the world population

World population



## Arable land worldwide



Data sources: Our World in Data based on HYDE, UN, and UN Population Division [2019 Revision].  
This is a visualization from OurWorldInData.org, where you find data and research on how the world is changing.

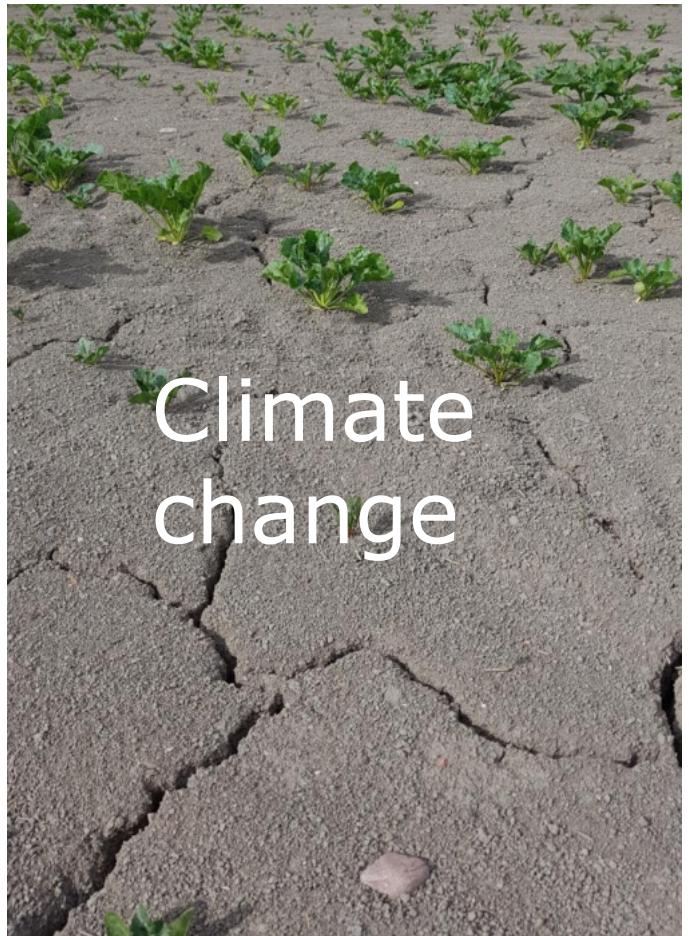
Source: World Economic Forum.

<https://www.weforum.org/agenda/2020/11/how-to-create-sustainable-food-systems/>

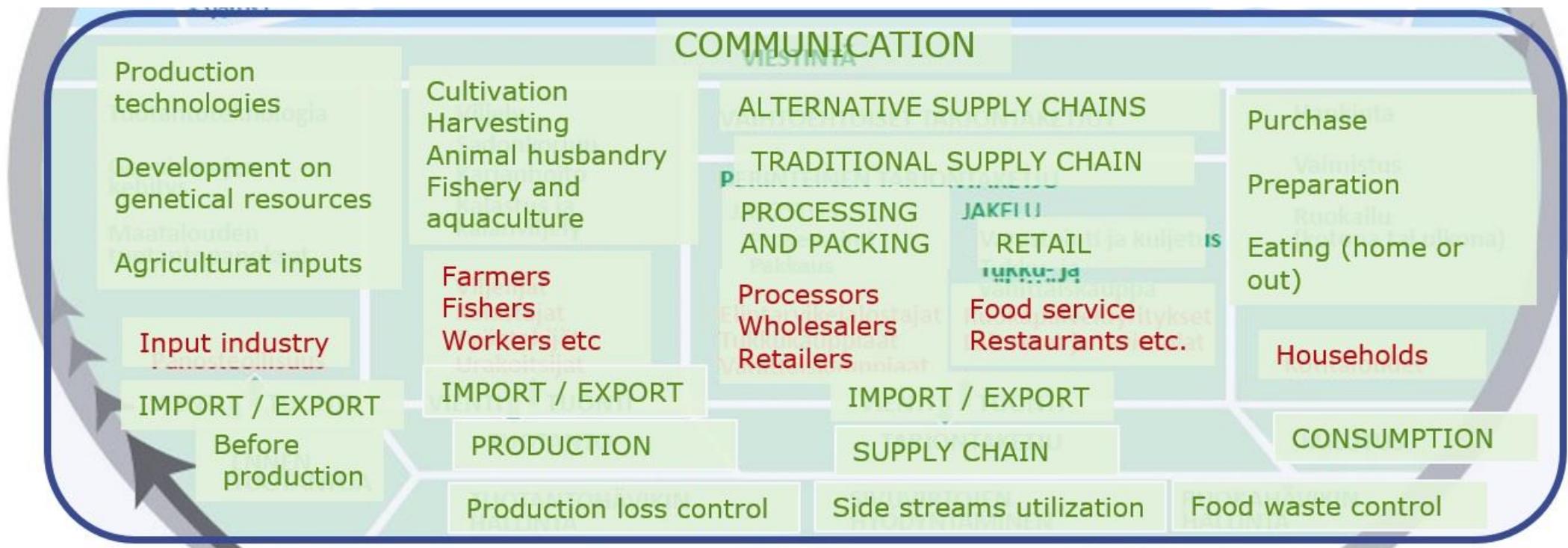
Source: Michigan State University.

<https://www.canr.msu.edu/news/feeding-the-world-in-2050-and-beyond-part-1>

# Some big, global problems



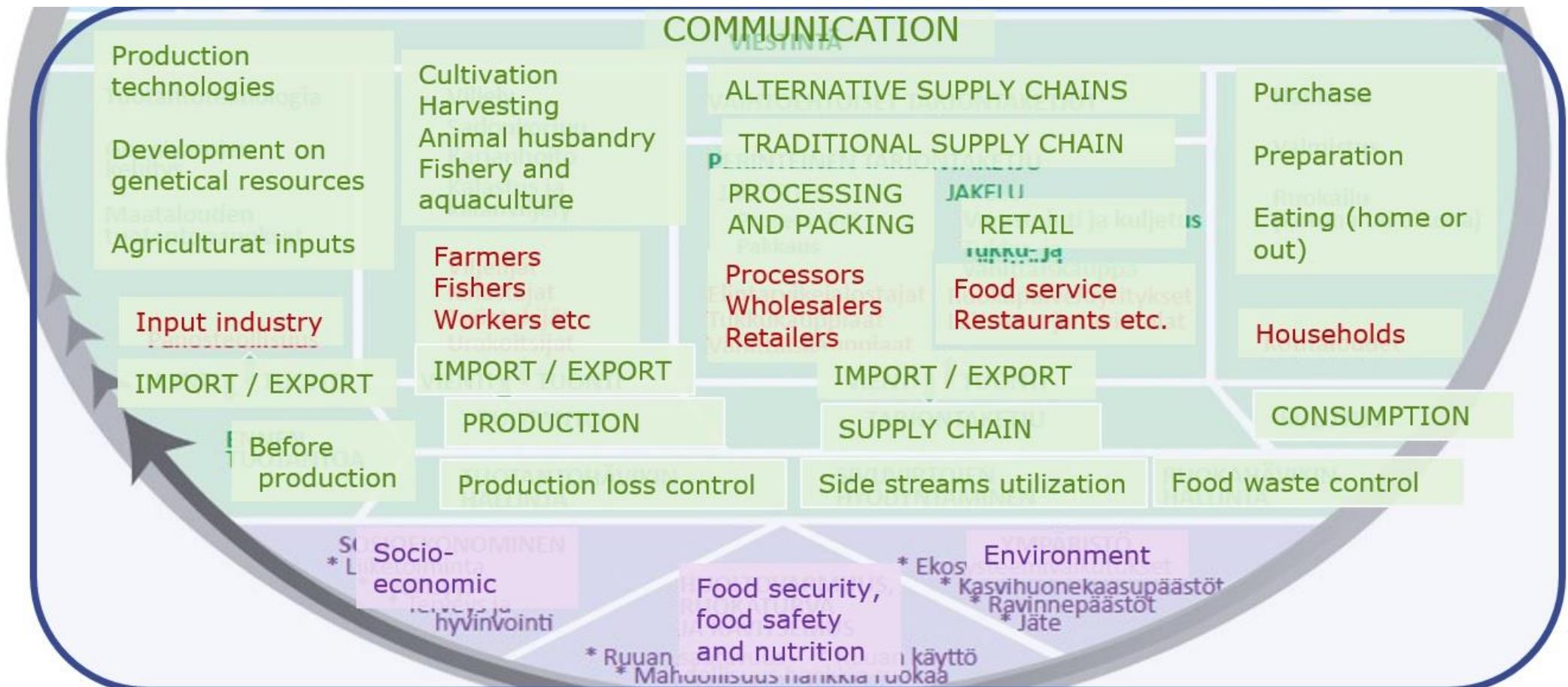
## DRIVERS – FUNCTIONS – ACTORS - OUTPUTS



Source: Karttunen, Kuhmonen & Savikurki:  
Tuntematon ruokajärjestelmä (Unknown  
food system). e2 Research. 2019.

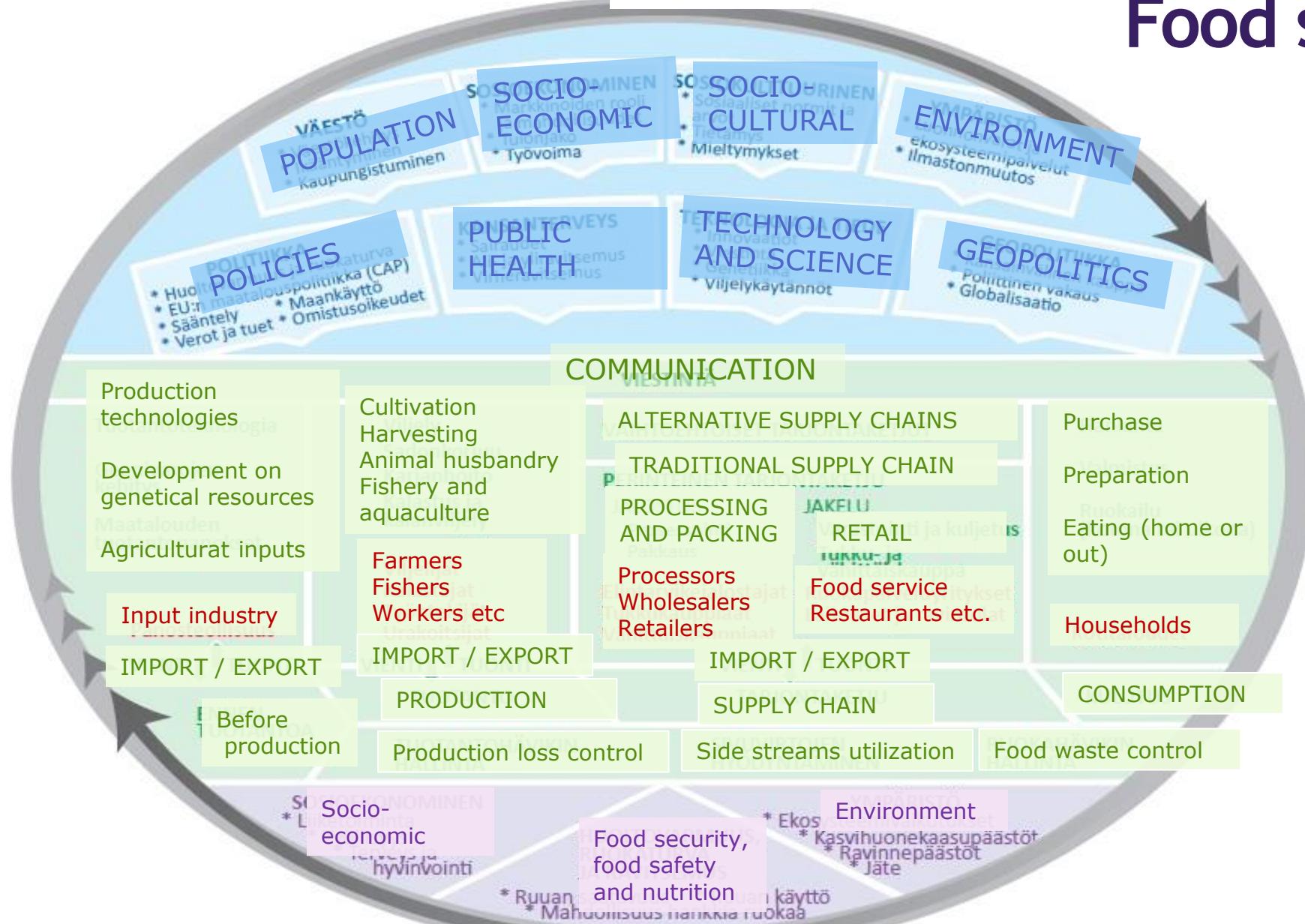
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### DRIVERS – FUNCTIONS – ACTORS - OUTPUTS



## DRIVERS

## Food system



Source:  
Karttunen,  
Kuhmonen &  
Savikurki:  
Tuntematon  
ruokajärjestelmä  
(Unknown food  
system). e2  
Research. 2019.

## Is agriculture attractive for young people?



You can make the future!

Education  
Continuous learning  
Research  
Innovation  
Collaboration  
New technologies  
etc.



Thank you for  
your attention!

