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By-products as a New Resource: Opportunities and Challenges for Food Supply Security

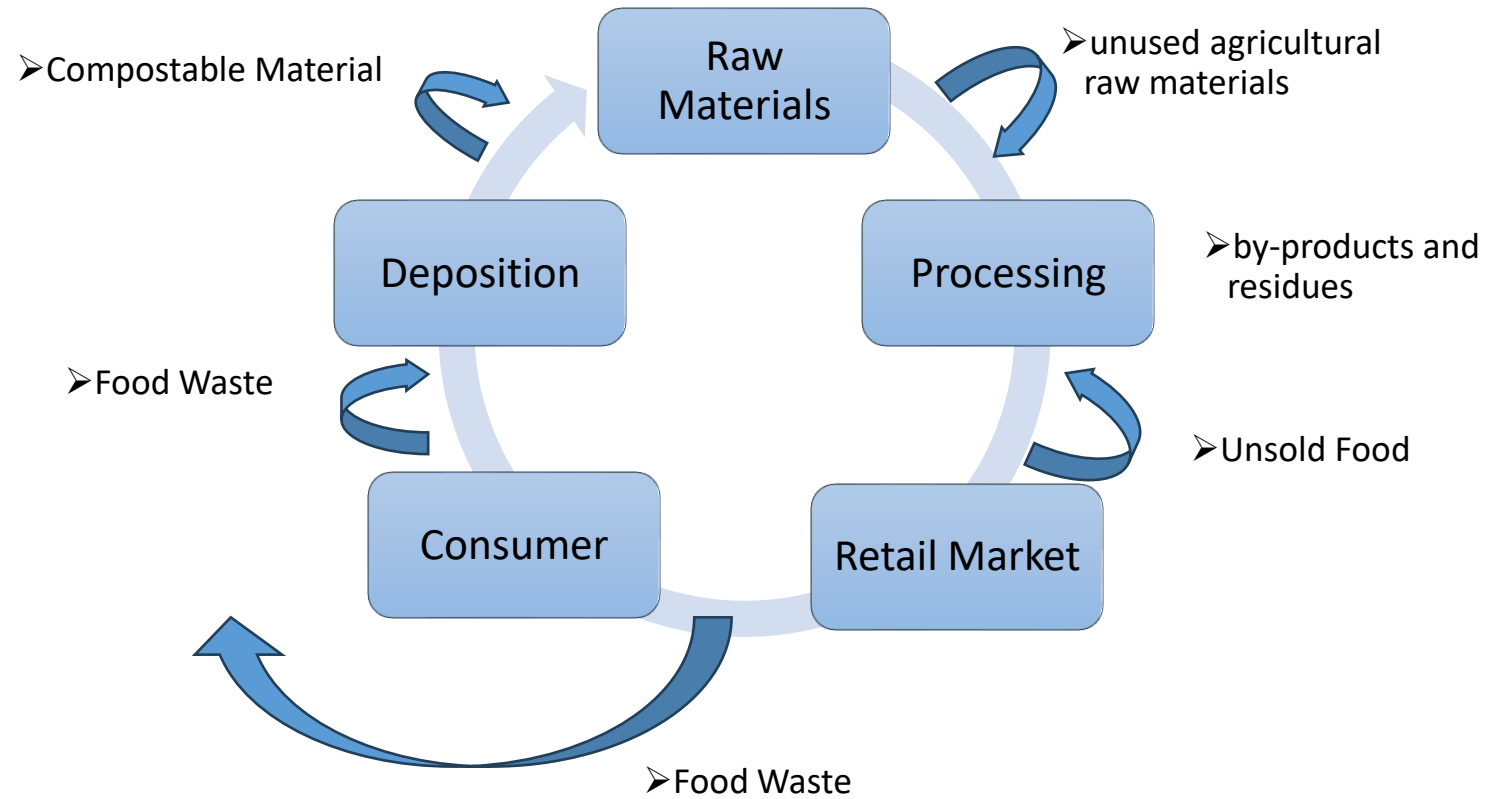
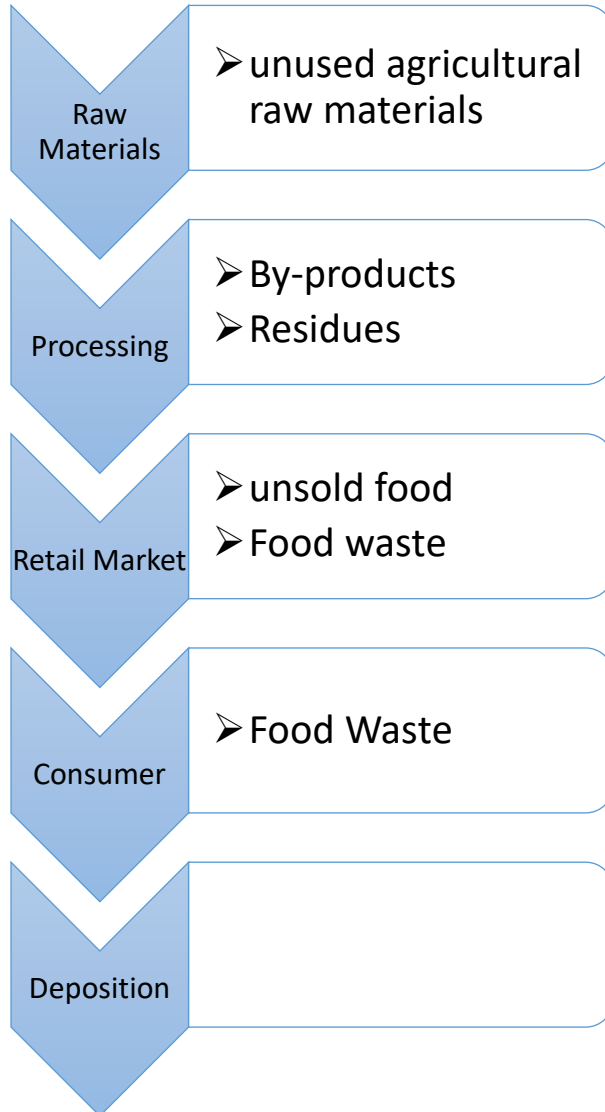
Dr. Gernot Zweytick

2024-11-21

SCALEUP
community-driven
bioeconomy development

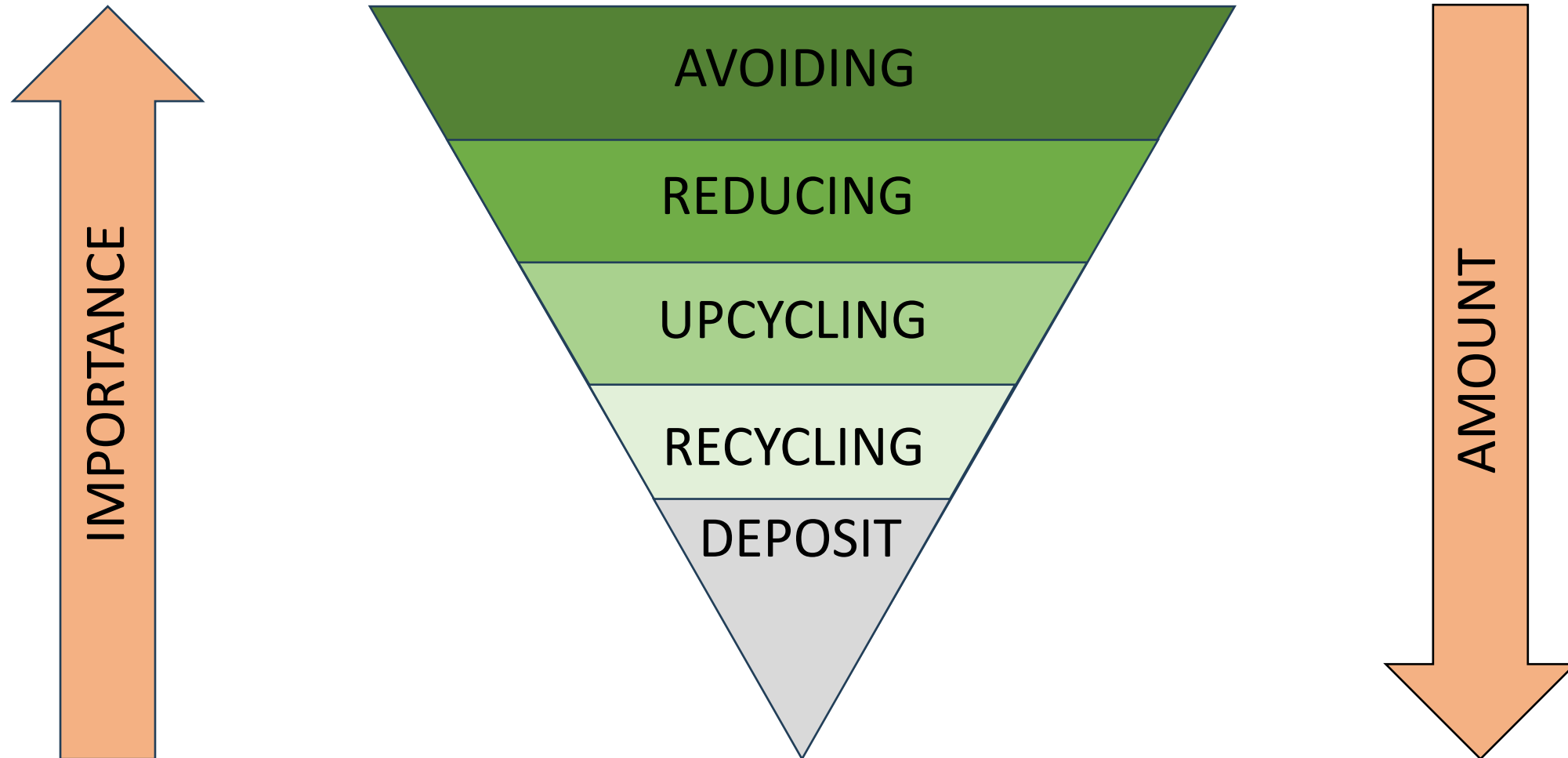


Linear versus Circular Economy



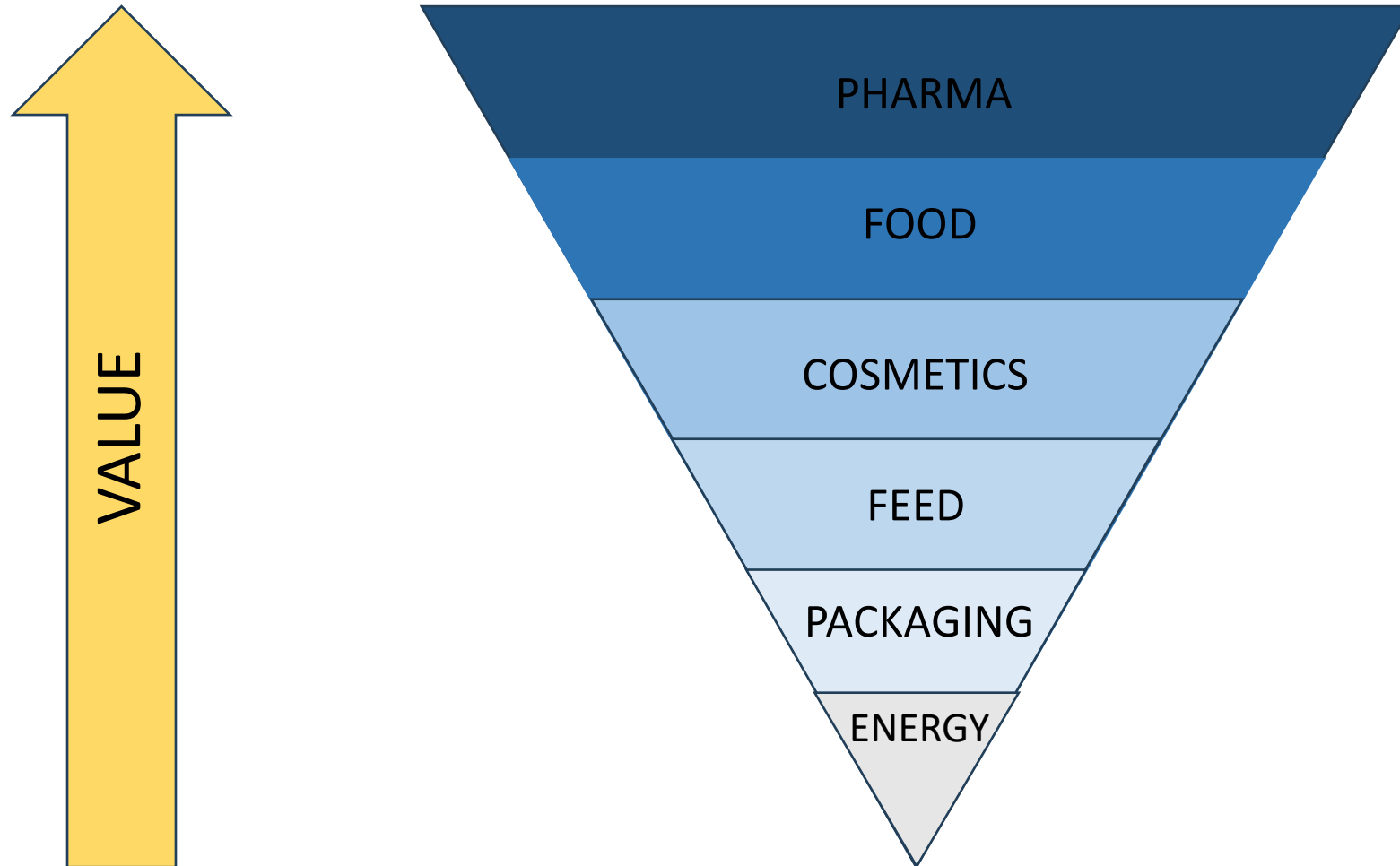


Waste Pyramid

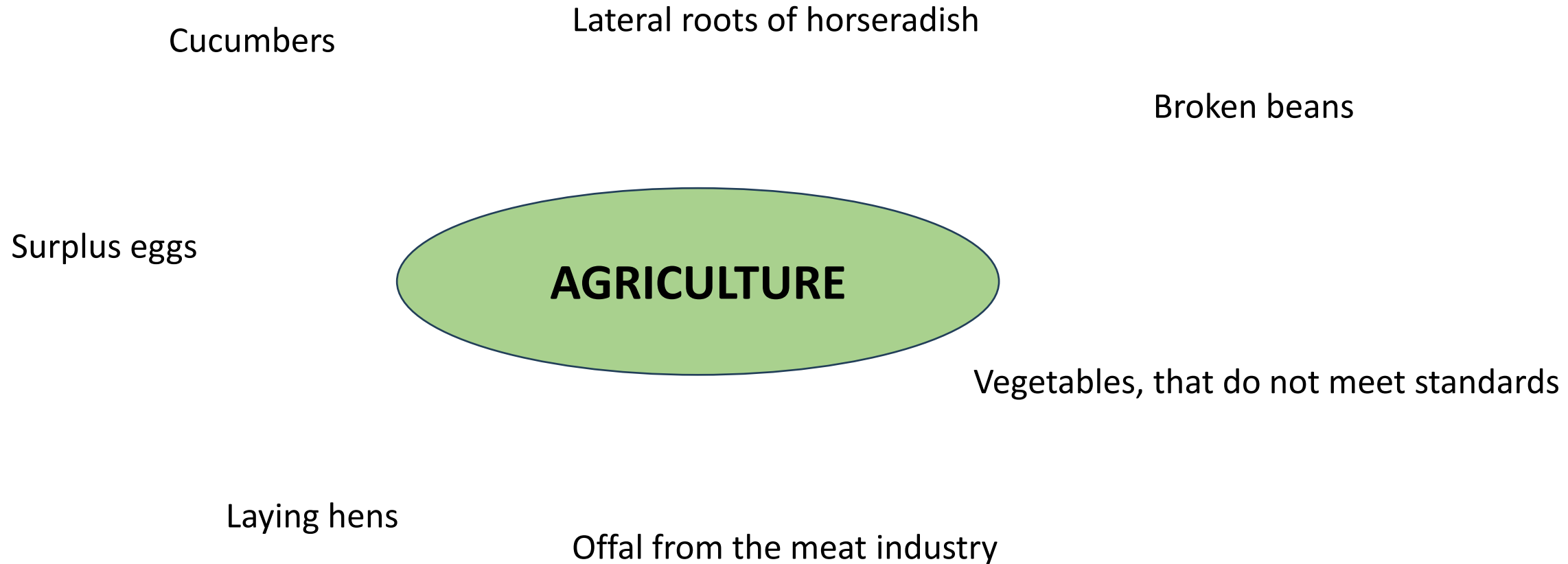




UP-Cycling Hierarchy



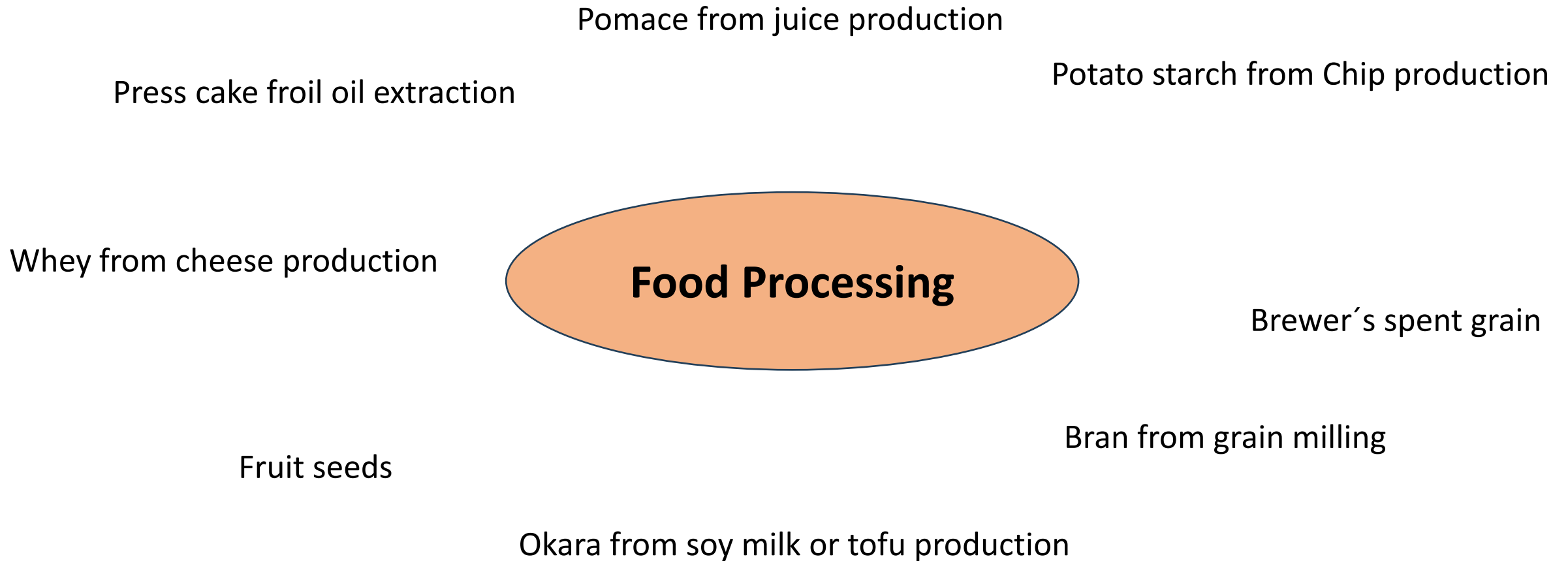
Examples of By-Products in the Food Supply Chain



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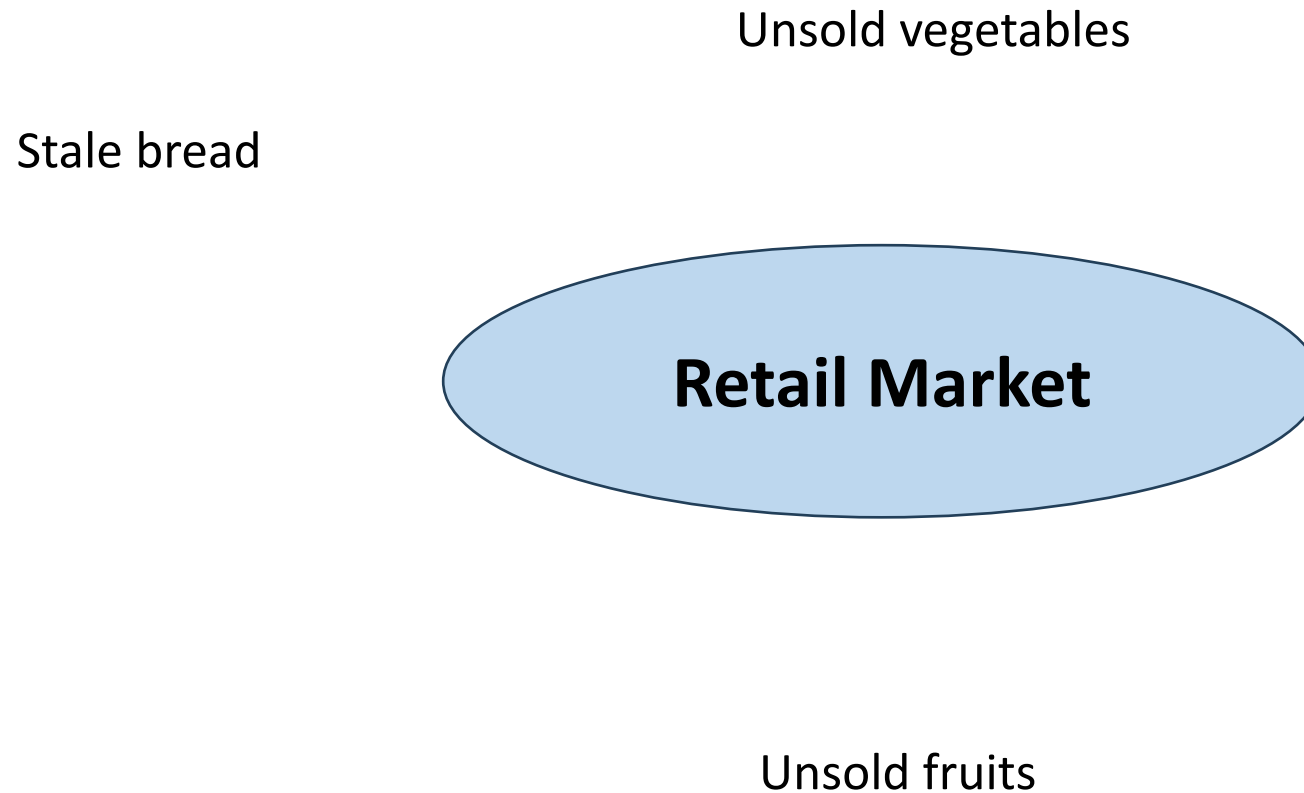
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Examples of By-Products in the Food Supply Chain



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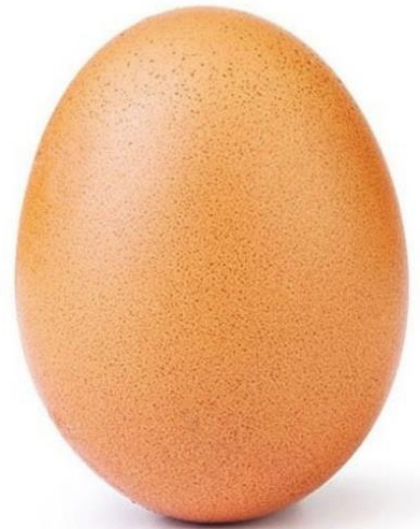
Examples of By-Products in the Food Supply Chain



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Male chicks

offal



Egg shells and egg white

Laying hens

Examples of By-Products in the Food Supply Chain



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Fresh cheese

Meat alternatives

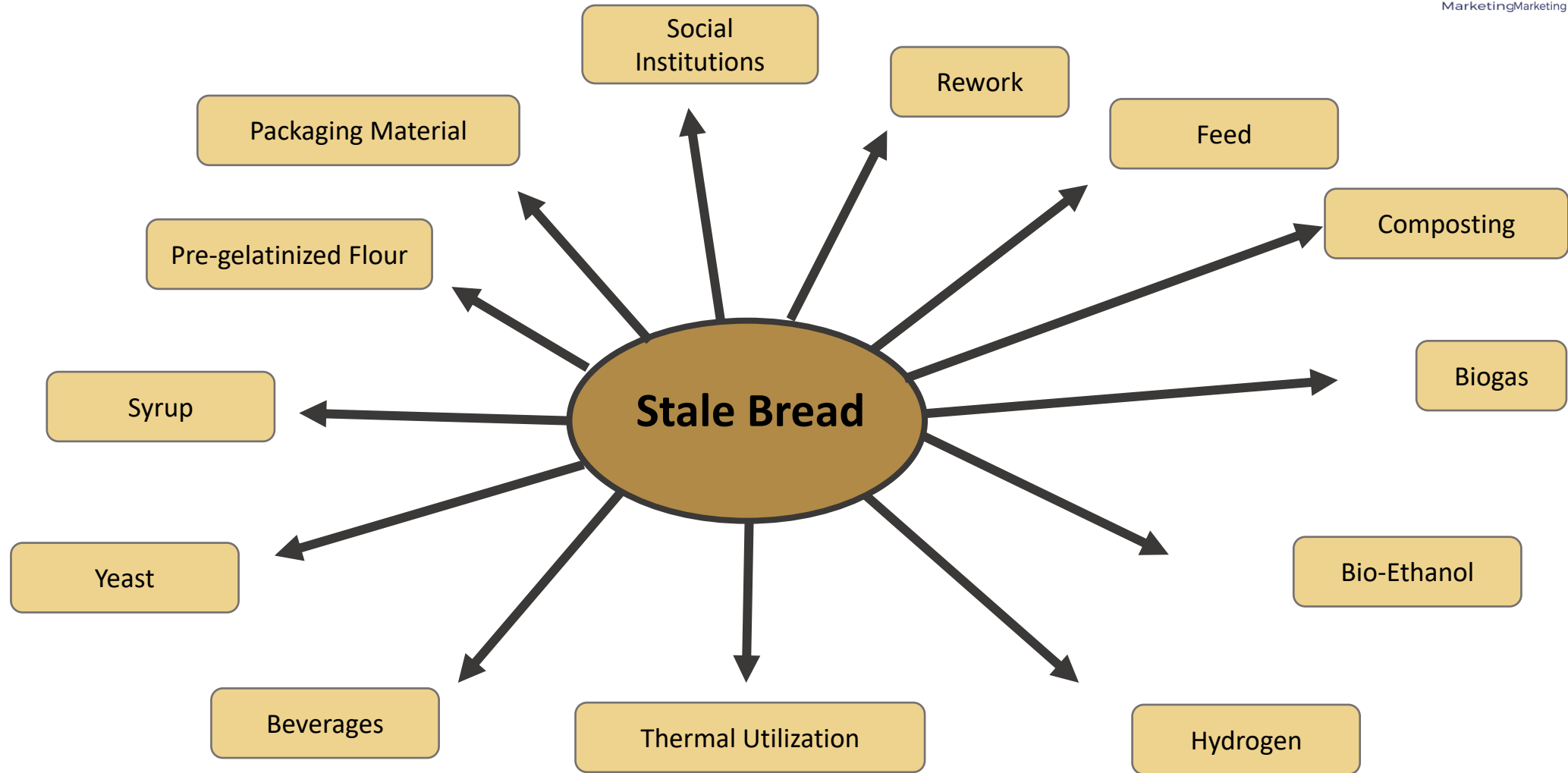


Bread

Tempeh



Examples of By-Products in the Food Supply Chain



Opportunities of Using By-Products



- **Promoting sustainability**
- **Cost-efficiency**
- **Innovative product development, technological, and nutritional benefits**
- **New raw material and nutrient sources**
- **Market advantage through sustainability**

Challenges of Using By-Products



- **Hygiene and food safety**
- **Technological and economic requirements**
- **Consumer acceptance**
- **Logistics and availability**
- **Legal aspects**
- **Competition with other uses**

Thank You!