

Dimensions 🔿	Process: How could you approach it differently?	Product: What are you working on?	Purpose: Why are you working on it?	People: Who might be affected in the future?
Components				
Anticipate & Analyze Opportunities	Is the planned research methodology acceptable?	Will the products be socially desirable?	Why should this research be undertaken?	Who matters? Who might care?
Tools & Techniques: Foresight	How do we know we are right?	What impacts can we anticipate?	What are the challenges and goals addressed?	How are the stakeholders affected?
Horizon Scanning Scenarios	Project Challenges Paradigms Assumptions Theories Methodology	Project Challenges Ethical issues Regulation Product properties Animal welfare Food & Feed safety Property rights	Project Challenges Protein challenge Malnutrition Sustainability Climate change Business impact	Project Challenges Open access Transparency Acceptance & desirability Variety of people & views
Reflect & Reason Considerations	How should risks and benefits be measured?	How will the risks and benefits be distributed?	Are these motivations transparent and in the public interest?	Have we included the right stakeholders?
Tools & Techniques: Ethical Assessment Multidisciplinary Collaboration	How should standards be drawn up and applied?	How might the risks and benefits change over time?	How could the challenges and goals of the research change?	Who else could be included?
Codes of Conduct	Project Practices Data security Gender balance Risk assessment Fair trade laws and practices	Project Practices Welfare of people and animals Conservation Food & Feed quality	Project Practices Maintenance of biodiversity Availability of affordable food Intrinsic value of people and animals Quality of life	Project Practices Variety of stakeholders Behavioural freedom Democratic informed choice Freedom of action Income and working conditions



Who is in control?	How can we embed stakeholder perspectives?	Who will benefit?	Who is affected?
Who is taking part?	What are the viewpoints of stakeholders?	What are they going to gain?	Who else could be affected?
Project Enablers	Project Enablers	Project Enablers	Project Enablers
			Citizens
People in the food industry	Animais and insects	The society The living environment	
How can responsibilities be shared?	What needs to be done to ensure social desirability?	How do we ensure that the implied future is desirable?	Who prioritizes research?
How can research structures become flexible?	How can we increase awareness on the impacts?	What are the alternative futures?	How could this influence diffused more widely?
Project Barriers	Project Barriers	Project Barriers	Project Barriers
Issues with data security	Regulation	System level problems	Cultural and religious barriers
Discriminatory practices	Animal welfare	Unpredictability of innovations	Dishonesty
Gender problems Field testing problems	Misuse	Environmental issues Ethical dilemmas and problems Production costs	Ignorance Discrimination
	 Who is taking part? Project Enablers Researchers People in the food industry How can responsibilities be shared? How can research structures become flexible? Project Barriers Issues with data security Discriminatory practices Gender problems 	perspectives?Who is taking part?What are the viewpoints of stakeholders?Project Enablers Researchers People in the food industryProject Enablers Stakeholders Animals and insectsHow can responsibilities be shared?What needs to be done to ensure social desirability?How can research structures become flexible?How can we increase awareness on the impacts?Project Barriers Issues with data security Discriminatory practices Gender problemsProject Barriers Regulation Animal welfare Misuse	perspectives?What are the viewpoints of stakeholders?What are they going to gain?Project Enablers Researchers People in the food industryProject Enablers Stakeholders Animals and insectsProject Enablers Stakeholder groups The society The living environmentHow can responsibilities be shared?What needs to be done to ensure social desirability?How do we ensure that the implied future is desirable?How can research structures become flexible?How can we increase awareness on the impacts?What are the alternative futures?Project Barriers Issues with data security Discriminatory practices Gender problemsProject Barriers Regulation Animal welfare MisuseProject Barriers Environmental issues Ethical dilemmas and problems