CROPBOOSTER-P SURVEY

PLEASE NOTE: Data collected until 15.09 2019 will be used in the primary analysis. However, the survey will remain active after 15.09 2019. Data collected after this may be used for supplementary analysis, you are welcome to add entries after this period. The updated entries will be made available periodically on the database update folder.

* Required

CROPBOOSTER-P SURVEY

Partners Information- This section is for INTERNAL USE only, to make certain all partners (and consequently, fields of expertise) are represented in the data collection.

1. Name *		
2. Affiliation *		
Description of entry- c his section is common to all 3 subsequent sections will be specific	otasks, and forms a c	ommon information base for the data collected.
Is this entry documenting a r Mark only one oval.	eview? *	
	westion in this section	n stan filling out this form
No No	uestion in this section	n, stop filling out this form.
4. Title of publication *		
5. Author List * Recommended format: Doe J.,	Taylor E., etc	
6. Year of publication *		
7. Abstract / Summary *		
Bibliographic reference/ PMI Please use other identifiers (su		fiers * cases where no standard identifiers are available
1 10030 036 00161 10611011613 (50	on as orces, only ill	odeses where no standard identifiers are available

			0.10.2000.2.1.
9.		e/ Protein /QTL involved *	
		ide standard accession numbers/ identifiers. can enter multiple genes separated by (;). For	
		ews with multiple genes of varying degrees of	
		ity, this question may be skipped.	
10	Biolo	ogical pathway (eg. Photosynthesis)	
10.	Dioi	ogical patitudy (eg. 1 notosynthesis)	
11.	Tech	nologies and Methods	
			nt and have been utilized in the study of this gene/
			out/ with yet unknown genetic basis please select the relevance to CropBooster descriptive answer
	for ra	anking / qualification purposes.	, , , , , , , , , , , , , , , , , , ,
	Ched	ck all that apply.	
		Conventional Breeding	
	H	Conventional GMO	
	Н		
	Ш	Epimutation	
		Gene Editing	
		GWAS	
	$\overline{\Box}$	MAS	
		Metabolic design	
		Modelling	
		Mutagenesis	
		Mutant Populations	
	\Box	Phenotyping	
	Щ	Plastid transformation	
		Populations/Mapping, Magic, Diversity Sets	
		Speed Breeding	
		Synthetic Biology	
		Tagged populations	
	\Box	TILLING	
		Transposon mobilisation	
	Щ	Other	
		Not known/ not yet identified	
12.	If oth	ner, specify	
13.	Crop	category / group *	
	Chec	ck all that apply.	
		Algae	
	Ш	Fibres/ Lignocellulose	
	Ш	Forage grasses	
		Grain staples	
		Model Plants	
		N2 fixers	
		Oilseed	
		Root staples	
	Ш	Vegetables / fruits	
		Other:	
14.	If oth	ner, specify	

		ecies *			
9	Specie	es marked with asterisk (*) are of particular relevance to this survey. Other species may also be ed, but only in the case that gene/ trait under consideration is not studied in the asterisked			
S	specie	S.			
1	Mark c	only one oval.			
		Arabidopsis*			
		Alfafa*			
		Barley			
		Brassicas			
		Carrot			
		Citrus			
		Clover			
		Douglas			
	\sim	Durum wheat			
		Eucalyptus			
	\leq				
		Field bean			
		Grape*			
		Sunflower*			
	\bigcirc	Hemp			
		Laminaria*			
	\bigcirc	Lettuce*			
	\bigcirc	Lupin			
		Maize*			
		Millet			
		Miscanthus*			
		Oat			
		Olive			
		Onion			
		Parsnip			
		Pea*			
		Pome*			
		Poplar*			
		Porphyra*			
		Potato*			
		Rapeseed*			
		Raspberry			
		Rice			
		Ryegrass*			
		Saccharina spp.			
		Sitka			
		Soybean*			
		Sorghum			
		Spinach			
		Spruce Character and Character			
		Strawberry			
		Sugarcane			
		Sugarbeet*			
		Tomato*			
		Switchgrass			
	\bigcirc	Ulva*			
		Wheat*			
		Tobacco*			
		Willow			
		Other			

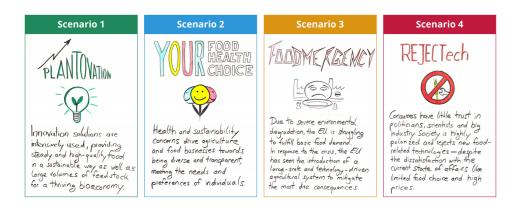
16. If other, specify

17. Scale/ geographical region	
Mention the regions the species is cultivated in. (The Check all that apply.	is is relevant for the final report and analysi
Mediterranean	
Humid subtropical	
Marine	
Humid continental	
Subarctic/ Tundra	
Highland	
Oceanic	
Other / do not know/ multiple regions	
8. If other/ multiple regions specify	
Orthologues in other species Mark only one oval.	
Yes	
No	
Other:	
21. Bibliographic references for orthologues (PMID/ DOI/ Other identifiers)	
22. Transferability potential/ existing examples of transferables of transferables of transferables of transferables on the second seco	ansferability?
Yes	
No	
Other:	
23. If yes, specify	
4. Bibliographic references for examples of transfe	erability (PMID/ DOI/ Other identifiers)

25	Subtask * Mark only one oval.
	Yield After the last question in this section, skip to question 103.
	Nutritional quality After the last question in this section, skip to question 30.
	Sustainability After the last question in this section, skip to question 149.
	Custamusmity The fact question in this section, ship to question 1715.
26	Relevance to subtask *
	How does this example fit into the subtask (yield, nutrition or sustainability)? Short description for
	qualification purposes.
27.	Does this gene/ trait involve or affect other subtasks? If yes, state which one(s): * Check all that apply.
	Yield National Advisors
	Nutrition
	Sustainability No it does not
	No, it does not
28	If yes, how?
29	GENERAL COMMENTS
	Please include any comments that might be relevant to this entry. If documenting a review, please emphasise the pathways reviewed , relevance to cropBooster-P
	emphasise the partially reviewed, relevance to dispussorer i
Sı	btrait Nutrient Quality
	ionale Hamione quality
30	Nutrient Class *
	Mark only one oval.
	Protein Skip to question 31.
	Carbohydrate Skip to question 39.
	Oils and fats Skip to question 46.
	Minerals Skip to question 65.
	Vitamins Skip to question 72.
	Specialized metabolites Skip to question 55.
	Antinutrients Skip to question 83.
	Toxic compounds Skip to question 90.
	Fibre/feedstock Skip to question 97.
D.,	otein
FI	otem
31	Protein Category *
	Check all that apply.
	Amino acids
	Peptides
	Enzymes
	Storage proteins- gliadines/ glutenines
	Storage proteins- general
	Other

	tuna af amina agid
	ype of amino acid Check all that apply.
	Isoleucine
	Leucine
	Lysine
	Methionine
	Phenylalanine
	Threonine
	Valine
	Argenine
	Tryptophan
. F	ther, specify Factors affecting nutritional quality * Please select the nutritional quality factors affected/ modified by the current entry
l. F	actors affecting nutritional quality *
1. F	Factors affecting nutritional quality * Please select the nutritional quality factors affected/ modified by the current entry Check all that apply.
1. F	Factors affecting nutritional quality * Please select the nutritional quality factors affected/ modified by the current entry Check all that apply. Sulfur deficiency
1. F	Factors affecting nutritional quality * Please select the nutritional quality factors affected/ modified by the current entry Check all that apply. Sulfur deficiency Nitrogen deficiency
1. F	Factors affecting nutritional quality * Please select the nutritional quality factors affected/ modified by the current entry Check all that apply. Sulfur deficiency Nitrogen deficiency Digestibility
l. F	Factors affecting nutritional quality * Please select the nutritional quality factors affected/ modified by the current entry Check all that apply. Sulfur deficiency Nitrogen deficiency Digestibility Heat stress
l. F	Factors affecting nutritional quality * Please select the nutritional quality factors affected/ modified by the current entry Check all that apply. Sulfur deficiency Nitrogen deficiency Digestibility Heat stress Drought stress
F (Factors affecting nutritional quality * Please select the nutritional quality factors affected/ modified by the current entry Check all that apply. Sulfur deficiency Nitrogen deficiency Digestibility Heat stress Drought stress Fermentation properties None of the above/other factors/don't know, can't say
F (Factors affecting nutritional quality * Please select the nutritional quality factors affected/ modified by the current entry Check all that apply. Sulfur deficiency Nitrogen deficiency Digestibility Heat stress Drought stress Fermentation properties
1. F	Factors affecting nutritional quality * Please select the nutritional quality factors affected/ modified by the current entry Check all that apply. Sulfur deficiency Nitrogen deficiency Digestibility Heat stress Drought stress Fermentation properties None of the above/other factors/don't know, can't say
1. F	Factors affecting nutritional quality * Please select the nutritional quality factors affected/ modified by the current entry Check all that apply. Sulfur deficiency Nitrogen deficiency Digestibility Heat stress Drought stress Fermentation properties None of the above/other factors/don't know, can't say
4. F	Factors affecting nutritional quality * Please select the nutritional quality factors affected/ modified by the current entry Check all that apply. Sulfur deficiency Nitrogen deficiency Digestibility Heat stress Drought stress Fermentation properties None of the above/other factors/don't know, can't say

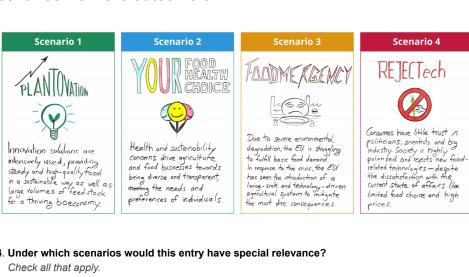
Please share your thoughts about the scenarios under which the listed example is relevant. Subjective opinions are accepted here



37. Under which scenarios would this entry have special relevance?	
Check all that apply.	
Scenario 1	
Scenario 2	
Scenario 3	
Scenario 4	
38. Comments to the scenarios	
Stop filling out this form.	
Carbohydrate	
39. Carbohydrates *	
Check all that apply.	
Sugars	
Oligosaccharides	
Polysaccharides	
40. Type of nutrient *	
Check all that apply.	
Monosaccharides	
Disaccharide	
Polyols	
Starch	
Non- starch polysaccharides	
Non- starch glycogen	
Other:	
41. Factors affecting nutritional quality * Please select the nutritional quality factors affected/ modified by the currer Check all that apply.	nt entry
Stress - UV radiation	
Stress - light intensity and photoperiod	
Stress - Water high or low	
Stress - heat	
Stress - high nitrogen	
Genetic variation	
Genes affecting biosynthesis/regulation/transport/	
Metabolism	
Biomass allocation	
Sulfur deficiency Nitrogen deficiency	
Digestibility	
Fermentation properties	
Stress - other	
None of the above/other factors/don't know, can't say	

2.	If other, specif	·y	
.3	Comments		
σ.	Comments		

Application to Scenarios (WP 1.1)
Please share your thoughts about the scenarios under which the listed example is relevant. Subjective opinions are accepted here



for a thriving bioeconomy.	preferences of individuals.	agricultural system to militiate the most dire consequences.	limited food choice and high prices.
44. Under which scenarios Check all that apply.	s would this entry have	special relevance?	
Scenario 1			
Scenario 2			
Scenario 3			
Scenario 4			
Stop filling out this form. Oils and Fats			
46. Type * Check all that apply.			
Sterols			
Saturated fatty aci	de		

46. Type	* ck all that apply.
	Sterols
	Saturated fatty acids
	Unsaturated fatty acids
	Long chain polyunsaturated fatty acids
	Monohydroxy fatty acid derivatives
	Crude extract
	Other

A8. Fatty Acid type Check all that apply. Myristic Palmitic Stearic Oleic Linoleic Other 49. If other, specify For Please select the nutritional quality * Please select the nutritional quality factors affected/ modified by the current entry Check all that apply. Structural characteristics - Stability - heat Structural characteristics Stability - humidity Molecular characteristics Stability - humidity Molecular characteristics - Antioxidant capacity Accumulation - storage root Accumulation - seed Accumulation - root system None of the above/other factors/don't know, can't say 51. If other, specify	47. If oth	er, specify
Palmitic Stearic Oleic Linoleic α linoleic Other 49. If other, specify 50. Factors affecting nutritional quality * Please select the nutritional quality factors affected/ modified by the current entry Check all that apply. Structural characteristics - Stability - heat Structural characteristics - Stability - light Structural characteristics Stability - humidity Molecular characteristics - Antioxidant capacity Accumulation - storage root Accumulation - seed Accumulation - root system None of the above/other factors/don't know, can't say		
Palmitic Stearic Oleic Linoleic α linoleic Other 49. If other, specify 50. Factors affecting nutritional quality * Please select the nutritional quality factors affected/ modified by the current entry Check all that apply. Structural characteristics - Stability - heat Structural characteristics - Stability - light Structural characteristics Stability - humidity Molecular characteristics - Antioxidant capacity Accumulation - storage root Accumulation - seed Accumulation - root system None of the above/other factors/don't know, can't say		Myristic
Oleic Linoleic a linoleic Other 49. If other, specify 50. Factors affecting nutritional quality * Please select the nutritional quality factors affected/ modified by the current entry Check all that apply. Structural characteristics - Stability - heat Structural characteristics- Stability - light Structural characteristics Stability - humidity Molecular characteristics - Antioxidant capacity Accumulation - storage root Accumulation - seed Accumulation - root system None of the above/other factors/don't know, can't say		
Linoleic a linoleic Other 49. If other, specify 50. Factors affecting nutritional quality * Please select the nutritional quality factors affected/ modified by the current entry Check all that apply. Structural characteristics - Stability - heat Structural characteristics- Stability - light Structural characteristics Stability - humidity Molecular characteristics - Antioxidant capacity Accumulation - storage root Accumulation - seed Accumulation - root system Accumulation - root system None of the above/other factors/don't know, can't say 51. If other, specify		Stearic
a linoleic Other 49. If other, specify 50. Factors affecting nutritional quality * Please select the nutritional quality factors affected/ modified by the current entry Check all that apply. Structural characteristics - Stability - heat Structural characteristics- Stability - humidity Molecular characteristics - Antioxidant capacity Accumulation - storage root Accumulation - seed Accumulation - root system None of the above/other factors/don't know, can't say		Oleic
Other		Linoleic
49. If other, specify 50. Factors affecting nutritional quality * Please select the nutritional quality factors affected/ modified by the current entry Check all that apply. Structural characteristics - Stability - heat Structural characteristics - Stability - light Structural characteristics Stability - humidity Molecular characteristics - Antioxidant capacity Accumulation - storage root Accumulation - seed Accumulation - shoot system Accumulation - root system None of the above/other factors/don't know, can't say		a linoleic
Please select the nutritional quality * Please select the nutritional quality factors affected/ modified by the current entry Check all that apply. Structural characteristics - Stability - heat Structural characteristics - Stability - light Structural characteristics Stability - humidity Molecular characteristics - Antioxidant capacity Accumulation - storage root Accumulation - seed Accumulation - shoot system None of the above/other factors/don't know, can't say		Other
Please select the nutritional quality factors affected/ modified by the current entry Check all that apply. Structural characteristics - Stability - heat Structural characteristics- Stability - light Structural characteristics Stability - humidity Molecular characteristics - Antioxidant capacity Accumulation - storage root Accumulation - seed Accumulation - shoot system None of the above/other factors/don't know, can't say	49. If oth	er, specify
Structural characteristics- Stability - light Structural characteristics Stability - humidity Molecular characteristics - Antioxidant capacity Accumulation - storage root Accumulation - seed Accumulation - shoot system Accumulation - root system None of the above/other factors/don't know, can't say	Pleas	e select the nutritional quality factors affected/ modified by the current entry
Structural characteristics Stability - humidity Molecular characteristics - Antioxidant capacity Accumulation - storage root Accumulation - seed Accumulation - shoot system Accumulation - root system None of the above/other factors/don't know, can't say 51. If other, specify		Structural characteristics - Stability - heat
Molecular characteristics - Antioxidant capacity		Structural characteristics- Stability - light
Accumulation - storage root Accumulation - seed Accumulation - shoot system Accumulation - root system None of the above/other factors/don't know, can't say 51. If other, specify		Structural characteristics Stability - humidity
Accumulation - seed Accumulation - shoot system Accumulation - root system None of the above/other factors/don't know, can't say 51. If other, specify		Molecular characteristics - Antioxidant capacity
Accumulation - shoot system Accumulation - root system None of the above/other factors/don't know, can't say 51. If other, specify		Accumulation - storage root
Accumulation - root system None of the above/other factors/don't know, can't say 51. If other, specify		Accumulation - seed
None of the above/other factors/don't know, can't say 51. If other, specify		Accumulation - shoot system
51. If other, specify		Accumulation - root system
		None of the above/other factors/don't know, can't say
52. Comments	51. If oth	er, specify
52. Comments		
52. Comments		
	52. Com r	nents

Application to Scenarios (WP 1.1)

Please share your thoughts about the scenarios under which the listed example is relevant. Subjective opinions are accepted here









	0		/			
	der which scenarios eck all that apply.	s would this entry have	special relevance?	?		
CIT	_					
L	Scenario 1					
Ļ	Scenario 2					
L	Scenario 3					
	Scenario 4					
54. Co	mments to the scer	narios				
	ing out this form.	oolites				
pla	condary metabolites nt based compounds eck all that apply.	s- that play a potentially nu	utritive role / in the pr	revention	n and treatment of	disease
	Organic acids					
	Bioactive compour	nds				
	terpenoids					
	glucosinolates					
	phenolics					
56. If o	other, specify					
	w molecular weight eck all that apply.	antioxidant				
CIT	_					
L	glutathione					
	ascorbate					

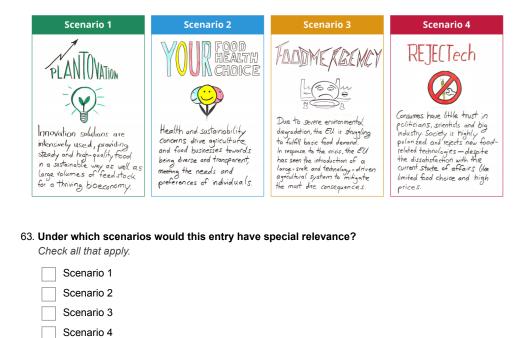
Other:

59. Comments to entry

58. If other, specify

Please	e select the nutritional quality factors affected/ modified by the current entry all that apply.
s	Stress - UV radiation
S	Stress - light intensity and photoperiod
S	Stress - flood
S	Stress - drought
	Stress - heavy metal
S	Stress - high nitrogen
В	Biostimulants
N	Microbes in rhizosphere
ir	ntra/inter-species variation
	Genes affecting biosynthesis/regulation
N	None of the above/other factors/don't know, can't say
61. If othe	er, specify
62. Comm	nents to entry

Please share your thoughts about the scenarios under which the listed example is relevant. Subjective opinions are accepted here



64.	Comments to the scenarios	
Stop	p filling out this form.	
Mi	nerals	
65.	. Macronutrient	
	Check all that apply.	
	Nitrogen	
	Phosphorous	
	Potassium	
	Calcium	
	Sulfur	
	Magnesium	
66.	. Micronutrient	
	Check all that apply.	
	Iron	
	Chloride	
	Potassium	
	Manganese	
	Zinc	
	lodine	
	Selenium	

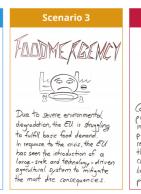
67. Factors affecting nutritional quality *	
Please select the nutritional quality factors affected/ modified by the curren Check all that apply.	t entry
Stress- heat	
Stress-cold	
Stress- high humidity	
Stress- flood	
Stress- drought	
Stress-salinity	
Stress-toxicity	
Stress-other	
Stress- nutrient overload	
Stress- Nutrient deficiency	
Stress- soil toxins	
Stress- soil composition	
Stress- pH	
Fertilizer- form	
Fertilizer-quality	
Biostimulants	
Geographical factors	
Bioavailability	
Microbes- in rhizosphere	
Microbes-fertilizer use efficiency- nitrogen fixation	
Sulphur nutrition	
Pathogen toxins	
Intra species cultivar- specific variation	
Uptake and allocation to edible organs	
Membrane transporters	
Efflux proteins	
Organic molecule synthesis	
Stress- transposable elements	
None of the above/other factors/don't know, can't say	
68. If other, specify	
69. Comments to entry	

Application to Scenarios (WP 1.1)

Please share your thoughts about the scenarios under which the listed example is relevant. Subjective opinions are accepted here



Scenario 2
YOUR FOOD HEALTH CHOICE
Health and sustainability
concerns drive agriculture and food businesses towards being diverse and transparent, meeting the needs and
preferences of individuals.



REJECTech
Consumers have little trust in politicians, scientists and big industry. Society is highly
polarized and rejects new food- related technologies — despite the dissatisfaction with the current state of affairs like
limited food choice and high prices.

Scenario 4

	ler which scenarios would this entry have spack all that apply.	ecial relevance?	
	Scenario 1		
	Scenario 2		
	Scenario 3		
	Scenario 4		
71. Co n	nments to the scenarios		
		_	
		_	
		_	
		_	
Stop fillir	ng out this form.		
Vitam	iins		
72. Vita	min A		
Che	ck all that apply.		
	α-Carotene		
	β-Carotene		
	β-Cryptoxanthin		
73. Vita	min R		
	eck all that apply.		
	Thiamine		
	Riboflavin		
	Niacin		
	Pantothenic acid		
	Pyridoxal		
	Biotin		
	Folates		
	Cobalamin		
- 4			
74. Vita Che	ı min C eck all that apply.		
	Ascorbate		
	, isosibate		
75. Vita			
Che	ck all that apply.		

Tocopherols
Tocotrienols

Phylloquinone ther, specify tors affecting nutritional quality as es select the nutritional quality factors affected/ modified by the current entry ock all that apply.
tors affecting nutritional quality use select the nutritional quality factors affected/ modified by the current entry
se select the nutritional quality factors affected/ modified by the current entry
se select the nutritional quality factors affected/ modified by the current entry
Antioxidant potential
Enzymatic cofactor
Redox chemistry
Enzyme protection
Enzyme precursor
Biosynthesis of enzymes
Root uptake
Membrane transporters
Nitrogen fertilizers
Oxidative stress
Component of biological pathway
Application of polyamines
Stress-temperature
Stress-other
Pathogen toxins
Bioavailability
Digestability
None of the above/other factors/don't know, can't say
her, specify
noi, opcony
nments to entry

Application to Scenarios (WP 1.1)

Please share your thoughts about the scenarios under which the listed example is relevant. Subjective opinions are accepted here







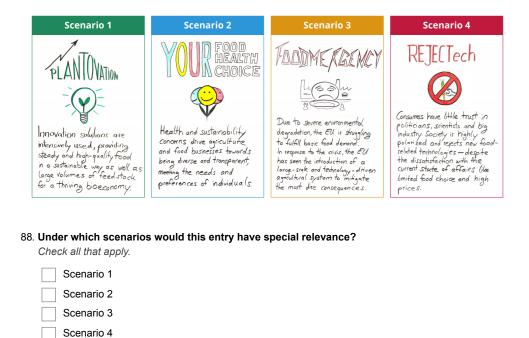
REJECTech
Consumes have little trust in politicians, scientists and big industry. Society is highly
polarized and rejects new tood- related technologies — despite the dissatisfaction with the
current state of affairs like limited food choice and high

Scenario 4

81. Under which scenarios would this entry have special relevance?
Check all that apply.
Scenario 1
Scenario 2
Scenario 3
Scenario 4
82. Comments to the scenarios
Stop filling out this form.
Antinutrients
83. Category * Check all that apply.
Proteinaceous antinutrients
Non proteinaceous antinutrients
84. Types * Check all that apply.
Protease inhibitors
Amylase inhibitors
Lipase inhibitors
Lectins
Ribosome Inactivating Proteins
Phytate
Oxalates
Phenolics (tannins, gossypol, other phenolics)
Glucosinolates
Dietary fibre

85.	Factors affecting nutritional quality *
	Please select the nutritional quality factors affected/ modified by the current entry Check all that apply.
	Intra-species variation
	Inter-species variation
	Genes affecting biosynthesis
	Genes affecting regulation
	Exogenous factors affecting synthesis and stability
	Genes affecting biosynthesis/regulation
	Genes affecting transport/metabolism
	Transport/competition with mineral nutrients
	Enzyme inhibitors
	None of the above/other factors/don't know, can't say
86.	If other, specify
87.	Comments to entry

Please share your thoughts about the scenarios under which the listed example is relevant. Subjective opinions are accepted here



89. Comments to the scenarios
Stop filling out this form.
Toxic compounds
Toxio compoundo
90. toxic compounds
Check all that apply.
Elements
Metabolites
01 Type
91. Type Check all that apply.
Nitrate
Heavy metals- Arsenic
Heavy metals-Lead
Heavy metals- Cadmium
Cyanogenic glycosides
Saponins Alkaloids
Coumarins
92. Factors affecting nutritional quality *
Please select the nutritional quality factors affected/ modified by the current entry
Check all that apply.
Intra-species variation
Inter-species variation
Genes affecting biosynthesis
Genes affecting regulation
Exogenous factors affecting synthesis and stability
Genes affecting biosynthesis/regulation
Genes affecting transport/metabolism
Transport/competition with mineral nutrients
Enzyme inhibitors
None of the above/other factors/don't know, can't say
93. If other, specify
94. Comments to entry

Please share your thoughts about the scenarios under which the listed example is relevant. Subjective opinions are accepted here

Scenarios from the outcome of WP 1.1



	Under which scenarios would this entry have special Check all that apply.	relevance?
	Scenario 1	
	Scenario 2	
	Scenario 3	
	Scenario 4	
96.	6. Comments to the scenarios	

Stop filling out this form.

Fibre/ feedstock

97. Type *			
Check all that apply.			
Ethanol content			
Digestibility			
Lignin content			
Lipid content			
Fatty acid content			
Fatty acid composition			
Alkyl ester content			
Butanol content			
Nutrient use efficiency (s)			
Water use efficiency (s)			
Acid detergent fibre			
Neutral detergent fibre			
Total dietary fiber			

Solub				
	le/insoluble i	ratio		
Polyn	neric structur	е		
Prote	n content			
None	of the above	e/other factors/don't know,	can't say	
9. If other, sp	ecify			
O. Comments	to entry			
			_	
pplicatio	n to Sc	enarios (WP 1.1)		
	our thoughts	enarios (WP 1.1) about the scenarios unde	r which the listed example	is relevant. Subjective
ease share yo inions are acc	our thoughts cepted here	about the scenarios unde	r which the listed example	
ease share yo inions are ac	our thoughts cepted here	ne outcome of W	r which the listed example	Scenario 4
ease share yo inions are acc	our thoughts cepted here	about the scenarios unde	r which the listed example	
ease share yo inions are acc	our thoughts cepted here	ne outcome of W	r which the listed example	Scenario 4
ease share yo inions are acc	our thoughts cepted here	scenario 2 Scenario 2 Scenario 2 CHOICE	Scenario 3 Scenario 3 Due to severe environmental	Scenario 4 REJECTech Consumes have little trust in politicians, scientists, and his
cenarios Scenarios	our thoughts bepted here from the prio 1	Scenario 2 Scenario 2 WHEALTH CHOICE Health and sustainability concerns drive agriculture	Scenario 3 Scenario 3 Due to severe environmental degradation, the EU is skuyling to fulfill baric food demand.	Scenario 4 REJECTech Consumes have little trust in politicians, scientists and big industry. Society is highly palanized and rejects new food
cenarios Scenarios	our thoughts cepted here from the control of the c	scenario 2 Scenario 2 WIREALTH CHOICE Health and sustainability	Scenario 3 Scenario 3 Due to severe environmentol degradation, the EU is skryyling	Scenario 4 REJECTech Consumes have little trust in politicians, scientists and big industry. Society is highly

Stop filling out this form.

Subtrait Yield

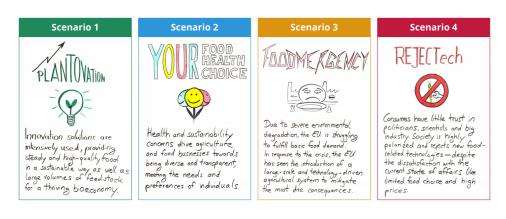
Mark only one oval.
Photosynthesis - photochemistry and biochemistry Skip to question 104.
Uptake and spatial management of resources Skip to question 114.
Sink/source activity Skip to question 126.
Plant growth, architecture and phenology Skip to question 134.
Photochemistry and Biochemistry Select relevant subtrait. Choose ONE option from the drop- down columns below that fits gene/ trait bes
104. Photochemistry Check all that apply.
Light harvesting
Light capture optimisation
Pigment composition
Light use efficiency (electron transport)
Other
105. If other, specify
106. Biochemistry – Carbon assimilation Check all that apply.
Stomatal aperture Rubisco and other Calvin cycle enzymes
Photosynthetic limitations (cofactor, TPU)
Chloroplast - cytosol transporters
Sucrose - starch balance
Photorespiration Red (with the addit) presing the
Dark (mitochondrial) respiration
Photosynthetic pathway (C4, C3, CAM, C3-C4 intermediary)
Sugar pathways
Photoacclimation
Photosynthetic induction
Other
107. If other, specify
108. Biochemistry - Photoprotection Check all that apply.
NPQ
Mehler reaction
Repair pathways (Oxidative stress)
Photosynthetic by-products
Protective molecules
Sugars and osmolytes
Photosynthetic antioxidants
Other
109. If other, specify

Pleas	ors affecting yield se select the yield factors affected/ modified by the current entry k all that apply.
	Stress - Nutrient deficiency
	Stress - Nutrient overload/form/quality
	Stress - Drought
	Stress - Flood
	Stress - Heavy metals
	Stress - Salinity
	Stress - Heat
	Stress - Cold/frost
	Stress - pH
	Stress - O3, UV, oxidative
	Stress - Light
	Stress - Photoperiod
	Stress - Physical constraints (soil compaction, hail, wind, sun)
	Stress - High humidity
	Stress - Soil composition
	Stress - Bio-stimulants
	Stress - Microbes in the rhizosphere
	Stress - Toxicity
	Stress - Soil toxins
	Geographical factors
	None of the above/other factors/don't know, can't say

111. If other, specify

Please share your thoughts about the scenarios under which the listed example is relevant. Subjective opinions are accepted here

Scenarios from the outcome of WP 1.1



112. Under which scenarios would this entry have special relevance? Check all that apply. Scenario 1 Scenario 2 Scenario 3 Scenario 4

Stop	filling out this form.
	take and spatial management of resource ct relevant subtrait:
	Water and Nutrient uptake/assimilation vs use Check all that apply.
	Water and Nutrients uptake (transporter channel regulators
	Other:
15.	If other, specify
16.	Primary and secondary metabolism
	Check all that apply.
	Osmolites
	Proteins
	Metabolic compounds accumulation
	Other:
	Nutrient use efficiency (NutUE)
	Check all that apply.
	Check all that apply. Local Water and Nutrients transport (root, stem and leaf tissu
	Check all that apply. Local Water and Nutrients transport (root, stem and leaf tissu Long distance Water and Nutrients transport (xylem)
	Check all that apply. Local Water and Nutrients transport (root, stem and leaf tissu Long distance Water and Nutrients transport (xylem) Nutrient metabolism
	Check all that apply. Local Water and Nutrients transport (root, stem and leaf tissu Long distance Water and Nutrients transport (xylem) Nutrient metabolism Nutrient partitioning
	Check all that apply. Local Water and Nutrients transport (root, stem and leaf tissu Long distance Water and Nutrients transport (xylem) Nutrient metabolism Nutrient partitioning Nutrient storage
	Check all that apply. Local Water and Nutrients transport (root, stem and leaf tissu Long distance Water and Nutrients transport (xylem) Nutrient metabolism Nutrient partitioning Nutrient storage Nutrients recycling
	Check all that apply. Local Water and Nutrients transport (root, stem and leaf tissu Long distance Water and Nutrients transport (xylem) Nutrient metabolism Nutrient partitioning Nutrient storage Nutrients recycling Alternative metabolic pathways
	Check all that apply. Local Water and Nutrients transport (root, stem and leaf tissu Long distance Water and Nutrients transport (xylem) Nutrient metabolism Nutrient partitioning Nutrient storage Nutrients recycling Alternative metabolic pathways lon homeostasis
	Check all that apply. Local Water and Nutrients transport (root, stem and leaf tissu Long distance Water and Nutrients transport (xylem) Nutrient metabolism Nutrient partitioning Nutrient storage Nutrients recycling Alternative metabolic pathways
	Check all that apply. Local Water and Nutrients transport (root, stem and leaf tissu Long distance Water and Nutrients transport (xylem) Nutrient metabolism Nutrient partitioning Nutrient storage Nutrients recycling Alternative metabolic pathways lon homeostasis
19.	Check all that apply. Local Water and Nutrients transport (root, stem and leaf tissu Long distance Water and Nutrients transport (xylem) Nutrient metabolism Nutrient partitioning Nutrient storage Nutrients recycling Alternative metabolic pathways lon homeostasis Other
119.	Check all that apply. Local Water and Nutrients transport (root, stem and leaf tissu Long distance Water and Nutrients transport (xylem) Nutrient metabolism Nutrient partitioning Nutrient storage Nutrients recycling Alternative metabolic pathways lon homeostasis Other If other, specify Heavy metals and salt
119.	Check all that apply. Local Water and Nutrients transport (root, stem and leaf tissu Long distance Water and Nutrients transport (xylem) Nutrient metabolism Nutrient partitioning Nutrient storage Nutrients recycling Alternative metabolic pathways lon homeostasis Other If other, specify Heavy metals and salt Check all that apply.
119.	Check all that apply. Local Water and Nutrients transport (root, stem and leaf tissu Long distance Water and Nutrients transport (xylem) Nutrient metabolism Nutrient partitioning Nutrient storage Nutrients recycling Alternative metabolic pathways Ion homeostasis Other If other, specify Heavy metals and salt Check all that apply. Uptake (transporter channel regulators)
119.	Check all that apply. Local Water and Nutrients transport (root, stem and leaf tissu Long distance Water and Nutrients transport (xylem) Nutrient metabolism Nutrient partitioning Nutrient storage Nutrients recycling Alternative metabolic pathways lon homeostasis Other If other, specify Heavy metals and salt Check all that apply. Uptake (transporter channel regulators) Local and long distance transport metabolism
19.	Check all that apply. Local Water and Nutrients transport (root, stem and leaf tissu Long distance Water and Nutrients transport (xylem) Nutrient metabolism Nutrient partitioning Nutrient storage Nutrients recycling Alternative metabolic pathways lon homeostasis Other If other, specify Heavy metals and salt Check all that apply. Uptake (transporter channel regulators) Local and long distance transport metabolism partitioning
19.	Check all that apply. Local Water and Nutrients transport (root, stem and leaf tissu Long distance Water and Nutrients transport (xylem) Nutrient metabolism Nutrient partitioning Nutrient storage Nutrients recycling Alternative metabolic pathways lon homeostasis Other If other, specify Heavy metals and salt Check all that apply. Uptake (transporter channel regulators) Local and long distance transport metabolism partitioning storage

121. If other, specify

122. Factors affecting yield Please select the yield factors affected/ modified by the current entry Check all that apply.
Stress - Heat
Stress - Cold
Stress - High humidity
Stress - Flood
Stress - Drought
Stress - Salinity
Stress - Toxicity
Stress - Nutrient overload
Stress - Nutrient deficiency
Stress - Soil toxins

None of the above/other factors/don't know, can't say

123. If other, specify

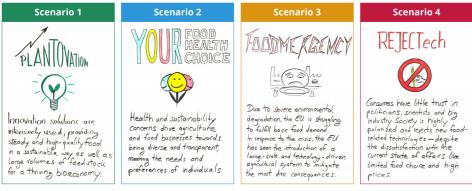
Application to Scenarios (WP 1.1)

Stress - Soil composition

Geographical factors

Stress - pH

Please share your thoughts about the scenarios under which the listed example is relevant. Subjective opinions are accepted here



	steady and high-guality food in a sustainable way as well as large volumes of feedstock for a thriving bioeconomy.	and took Dusinesses towards being diverse and transparent, meeting the needs and preferences of individuals.	in terponse to the civis, the CU has seen the introduction of a lorge-scale and technology - driver, a greathural system to militate the most dire consequences.	related technologies — despite the dissiblation with the current state of affairs (like limited food choice and high prices.
124.	Under which scenarios Check all that apply.	s would this entry have	special relevance?	
	Scenario 1			
	Scenario 2			
	Scenario 3			
	Scenario 4			
125.	Comments to the scen	arios		

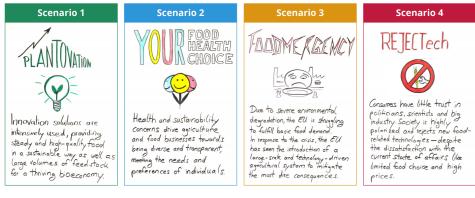
Stop filling out this form.

Sink/ source activity Select relevant subtrait:

Sucrose metabolism (source) Nutrient metabolism (source) Water and nutrients storage Storage compound metabolism (source) Carbon transfer Nutrient transfer Coordination of C and Nutrient assimilation Other micronutrients Other 127. If other, specify Sink to source feedback Source to sink feedforward Senescence of source organs Sink/grain development Seed filling Sensescence of sink organs Other 129. If other, specify 130. Factors affecting yield Please select the yield factors affected/ modified by the current entry Check all that apply. Stress - Heat Stress - Cold Stress - High humidity Stress - Flood Stress - Drought
Nutrient metabolism (source) Water and nutrients storage Storage compound metabolism (source) Carbon transfer Nutrient transfer Coordination of C and Nutrient assimilation Other micronutrients Other 127. If other, specify Sink to source feedback Source to sink feedforward Senescence of source organs Sink/grain development Seed filling Sensescence of sink organs Other 129. If other, specify 130. Factors affecting yield Please select the yield factors affected/ modified by the current entry Check all that apply. Stress - Heat Stress - Cold Stress - High humidity Stress - Flood
Water and nutrients storage Storage compound metabolism (source) Carbon transfer Nutrient transfer Coordination of C and Nutrient assimilation Other micronutrients Other 127. If other, specify Sink to source feedback Source to sink feedforward Senescence of source organs Sink/grain development Seed filling Sensescence of sink organs Other 129. If other, specify 130. Factors affecting yield Please select the yield factors affected/ modified by the current entry Check all that apply. Stress - Heat Stress - Cold Stress - High humidity Stress - Flood
Storage compound metabolism (source) Carbon transfer Nutrient transfer Coordination of C and Nutrient assimilation Other micronutrients Other 127. If other, specify 128. Source sink balance Check all that apply. Sink to source feedback Source to sink feedforward Senescence of source organs Sink/grain development Seed filling Sensescence of sink organs Other 129. If other, specify 130. Factors affecting yield Please select the yield factors affected/ modified by the current entry Check all that apply. Stress - Heat Stress - Cold Stress - High humidity Stress - Flood
Carbon transfer Nutrient transfer Coordination of C and Nutrient assimilation Other micronutrients Other 127. If other, specify 128. Source sink balance Check all that apply. Sink to source feedback Source to sink feedforward Senescence of source organs Sink/grain development Seed filling Sensescence of sink organs Other 129. If other, specify 130. Factors affecting yield Please select the yield factors affected/ modified by the current entry Check all that apply. Stress - Heat Stress - Cold Stress - High humidity Stress - Flood
Nutrient transfer Coordination of C and Nutrient assimilation Other micronutrients Other 127. If other, specify 128. Source sink balance Check all that apply. Sink to source feedback Source to sink feedforward Senescence of source organs Sink/grain development Seed filling Sensescence of sink organs Other 129. If other, specify 130. Factors affecting yield Please select the yield factors affected/ modified by the current entry Check all that apply. Stress - Heat Stress - Cold Stress - High humidity Stress - Flood
Coordination of C and Nutrient assimilation Other micronutrients Other 127. If other, specify 128. Source sink balance Check all that apply: Sink to source feedback Source to sink feedforward Senescence of source organs Sink/grain development Seed filling Sensescence of sink organs Other 129. If other, specify 130. Factors affecting yield Please select the yield factors affected/ modified by the current entry Check all that apply. Stress - Heat Stress - Cold Stress - High humidity Stress - Flood
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Other 127. If other, specify
127. If other, specify 128. Source sink balance Check all that apply. Sink to source feedback Source to sink feedforward Senescence of source organs Sink/grain development Seed filling Sensescence of sink organs Other 129. If other, specify 130. Factors affecting yield Please select the yield factors affected/ modified by the current entry Check all that apply. Stress - Heat Stress - Cold Stress - High humidity Stress - Flood
128. Source sink balance Check all that apply. Sink to source feedback Source to sink feedforward Senescence of source organs Sink/grain development Seed filling Sensescence of sink organs Other 129. If other, specify 130. Factors affecting yield Please select the yield factors affected/ modified by the current entry Check all that apply. Stress - Heat Stress - Cold Stress - High humidity Stress - Flood
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Sink to source feedback Source to sink feedforward Senescence of source organs Sink/grain development Seed filling Senescence of sink organs Other 129. If other, specify 130. Factors affecting yield Please select the yield factors affected/ modified by the current entry Check all that apply. Stress - Heat Stress - Cold Stress - High humidity Stress - Flood
Source to sink feedforward Senescence of source organs Sink/grain development Seed filling Sensescence of sink organs Other 129. If other, specify 130. Factors affecting yield Please select the yield factors affected/ modified by the current entry Check all that apply. Stress - Heat Stress - Cold Stress - High humidity Stress - Flood
Senescence of source organs Sink/grain development Seed filling Sensescence of sink organs Other 129. If other, specify 130. Factors affecting yield Please select the yield factors affected/ modified by the current entry Check all that apply. Stress - Heat Stress - Cold Stress - High humidity Stress - Flood
Sink/grain development Seed filling Sensescence of sink organs Other 129. If other, specify 130. Factors affecting yield Please select the yield factors affected/ modified by the current entry Check all that apply. Stress - Heat Stress - Cold Stress - High humidity Stress - Flood
Seed filling Sensescence of sink organs Other 129. If other, specify 130. Factors affecting yield Please select the yield factors affected/ modified by the current entry Check all that apply. Stress - Heat Stress - Cold Stress - High humidity Stress - Flood
Sensescence of sink organs Other 129. If other, specify 130. Factors affecting yield Please select the yield factors affected/ modified by the current entry Check all that apply. Stress - Heat Stress - Cold Stress - High humidity Stress - Flood
Other 129. If other, specify 130. Factors affecting yield Please select the yield factors affected/ modified by the current entry Check all that apply. Stress - Heat Stress - Cold Stress - High humidity Stress - Flood
130. Factors affecting yield Please select the yield factors affected/ modified by the current entry Check all that apply. Stress - Heat Stress - Cold Stress - High humidity Stress - Flood
130. Factors affecting yield Please select the yield factors affected/ modified by the current entry Check all that apply. Stress - Heat Stress - Cold Stress - High humidity Stress - Flood
Please select the yield factors affected/ modified by the current entry Check all that apply. Stress - Heat Stress - Cold Stress - High humidity Stress - Flood
Stress - Cold Stress - High humidity Stress - Flood
Stress - High humidity Stress - Flood
Stress - Flood
Stress - Drought
U olicos - Diougni
Stress - Salinity
Stress - Toxicity
Stress - Nutrient overload
Stress - Nutrient deficiency
Stress - Soil toxins
Stress - Soil composition
Stress - pH
Geographical factors
None of the above/other factors/don't know, can't say
131. If other, specify

Application to Scenarios (WP 1.1)

Please share your thoughts about the scenarios under which the listed example is relevant. Subjective opinions are accepted here



132.	Under which scenarios would this entry have special relevance? Check all that apply.
	Scenario 1
	Scenario 2
	Scenario 3
	Scenario 4
,	o filling out this form.
Pla	ant growth, architecture and phenology
134.	Shoot architecture anatomy and canopy profile Check all that apply.

134. Shoot architecture anatomy and canopy profile Check all that apply.
Phyllotaxy
Self - shading
Compactness
Stem anatomy and composition
Shoot and canopy hydraulics
Vascular tissues anatomy (density, structure) and functionning
Profile of photosynthetic resources
Leaf angle (erectness)
Leaf morphology/shape
Organ length/width/strength
Wound healing
Other
135. If other, specify

136. Leaf anatomy and activity Check all that apply.
Cuticular thickness
Wax/cutin ratio and content
Stomatal properties (morphology, densities, distribution, location and resistance)
Mesophyll thickness
Mesophyll conductance
Mesophyll resistance
Mesophyll structure
CAM/C3/C4 intermediary structure
Vascular tissues anatomy (density, structure) and functionning
Leaf hydraulics
Stomatal aperture and functioning regulation
Organelle properties (density, positioning and movement)
Cellular subcellular and Ultrastructural adaptations
Wound healing
Other
137. If other, specify
138. Growth rate
Check all that apply.
Meristem activity
Cell division
Growth mechanics
Cell expansion
Cell wall composition
Cell turgor
Other
139. If other, specify

140.	Check all that apply.
	Root length
	Root number (lateral, seminal, adventitious)
	Root growth angle
	Root density
	Root plasticity
	Root competition ability
	Root hydraulics
	Cell layer number
	Cells layers structure
	Aerenchyma (PCD)
	Cell division/elongation
	Cell wall composition
	Lignification, Suberisation
	Cellular subcellular and Ultrastructural adaptations
	Wound healing
	Storage capacity
	Respiration
	Exudation
	Other
141.	If other, specify
142.	Root/shoot coordination Check all that apply.
	Root/shoot ratio
	Root/shoot transport and signalling
	Other
143.	If other, specify
144.	Phenology Check all that apply.
	Reproductive switch
	Flower development/abortion
	Flowering time
	Flower number
	Fertilization and seed set efficiency
	Seed number/abortion
	Seed filling rate
	Inflorescence plasticity
	Early vigour
	Ageing/senescence/juvenility
	Plastid/chloroplast lifetime
	Stay-green
	Other
	_
145.	If other, specify

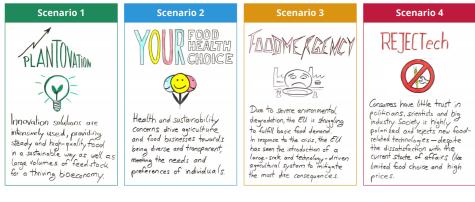
146. Factors affecting yield

Please select the yield factors affected/ modified by the current entry Check all that apply.
Stress - Heat
Stress - Cold
Stress - High humidity
Stress - Flood
Stress - Drought
Stress - Salinity
Stress - Toxicity
Stress - Nutrient overload
Stress - Nutrient deficiency
Stress - Soil toxins
Stress - Soil composition
Stress - pH
Geographical factors
None of the above/other factors/don't know, can't say

Application to Scenarios (WP 1.1)

Please share your thoughts about the scenarios under which the listed example is relevant. Subjective opinions are accepted here

Scenarios from the outcome of WP 1.1



	,			,	1
7. Undei	r which scenario	s would this entry l	nave special re	elevance?	
	k all that apply.	,,,,,,			
	Scenario 1				
	Scenario 2				
	Scenario 3				
	Scenario 4				
8. Com n	nents to the scer				

Stop filling out this form.

Subtrait Sustainability

ss * k only one oval.
Photosynthesis - photochemistry and biochemistry Skip to question 104.
Uptake and spatial management of resources Skip to question 114.
Sink/source activity Skip to question 126.
Plant growth, architecture and phenology Skip to question 134.
ochemistry and Biochemistry elevant subtrait:
otochemistry eck all that apply.
Light harvesting
Light capture optimisation
Pigment composition
Light use efficiency (electron transport)
Other
her, specify
chemistry – Carbon assimilation
eck all that apply.
Stomatal aperture
Rubisco and other Calvin cycle enzymes
Photosynthetic limitations (cofactor, TPU)
Chloroplast-cytosol transporters
Sucrose - starch balance
Photorespiration
Dark (mitochondrial) respiration
Photosynthetic pathway (C4, C3, CAM, C3-C4 intermediary)
Sugar pathways
Photoacclimation
Photosynthetic induction
Other
ther, specify
chemistry - Photoprotection ck all that apply.
NPQ
Mehler reaction
Repair pathways (Oxidative stress)
Photosynthetic by-products
Protective molecules
Sugars and osmolytes
Sugars and osmolytes Photosynthetic antioxidants

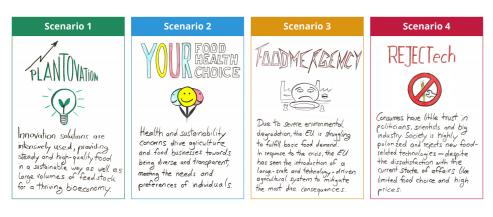
Plea	tors affecting sustainability use select the sustainability factors affected/ modified by the current entry use all that apply.
	Stress - Nutrient deficiency
	Stress - Nutrient overload/form/quality
	Stress - Drought
	Stress - Flood
	Stress - Heavy metals
	Stress - Salinity
	Stress - Heat
	Stress - Cold/frost
	Stress - pH
	Stress - O3, UV, oxidative
	Stress - Light
	Stress - Photoperiod
	Stress - Physical constraints (soil compaction, hail, wind, sun)
	Stress - High humidity
	Stress - Soil composition
	Stress - Bio stimulants
	Stress - Microbes in the rhizosphere
	Stress - Toxicity
	Stress - Soil toxins
	Geographical factors

157. If other, specify

Please share your thoughts about the scenarios under which the listed example is relevant. Subjective opinions are accepted here

Scenarios from the outcome of WP 1.1

None of the above/other factors/don't know, can't say



158. Under which scenarios would this entry have special relevance? Check all that apply. Scenario 1 Scenario 2 Scenario 3 Scenario 4

159.	Comments to the scenarios
Stop	o filling out this form.
	etake and spatial management of resource ect relevant subtrait:
160.	Water and Nutrient uptake/assimilation vs use Check all that apply.
	Water and Nutrients uptake (transporter channel regulators
	Other:
161.	If other, specify
162.	Primary and secondary metabolism
	Check all that apply.
	Osmolites
	Proteins
	Metabolic compounds accumulation
	Other:
164.	Nutrient use efficiency (NutUE)
	Check all that apply.
	Local Water and Nutrients transport (root, stem and leaf tissu
	Long distance Water and Nutrients transport (xylem)
	Nutrient metabolism
	Nutrient partitioning
	Nutrient storage Nutrients recycling
	Alternative metabolic pathways lon homeostasis
	Other
	Other
165.	If other, specify
166.	Heavy metals and salt Check all that apply.
	Uptake (transporter channel regulators)
	Local and long distance transport metabolism
	Partitioning
	Storage
	Alternative metabolic pathways
	lon homeostasis
	Other:
	1

167. If other, specify

168.	Factors affecting sustainability	
	Please select the sustainability factors	aff

Please select the sustainability factors affected/ modified by the current entry Check all that apply.

Stress - Heat

Stress - Cold

Stress - High humidity

Stress - Flood

Stress - Drought

Stress - Salinity

Stress - Toxicity

Stress - Nutrient overload

Stress - Nutrient deficiency

Stress - Soil toxins

Stress - Soil composition

Stress - pH

Geographical factors

None of the above/other factors/don't know, can't say

169. If other, specify

Application to Scenarios (WP 1.1)

Please share your thoughts about the scenarios under which the listed example is relevant. Subjective opinions are accepted here

Scenarios from the outcome of WP 1.1









170. Under which scenarios would this entry have special relevance? Check all that apply. Scenario 1 Scenario 2 Scenario 3 Scenario 4 171. Comments to the scenarios

Stop filling out this form.

Sink/ source activity Select relevant subtrait:

172. Nutrient metabolism, transport, remobilization and partitioning
Check all that apply.
Sucrose metabolism (source)
Nutrient metabolism (source)
Water and nutrients storage
Storage compound metabolism (source)
Carbon transfer
Nutrient transfer
Coordination of C and Nutrient assimilation
Other micronutrients
Other
173. If other, specify
174. Source sink balance
Check all that apply.
Sink to source feedback
Source to sink feedforward
Senescence of source organs
Sink/grain development
Seed filling
Sensescence of sink organs
Other
175. If other, specify
175. If other, specify
176. Factors affecting sustainability Please select the sustainability factors affected/ modified by the current entry
176. Factors affecting sustainability
176. Factors affecting sustainability Please select the sustainability factors affected/ modified by the current entry
176. Factors affecting sustainability Please select the sustainability factors affected/ modified by the current entry Check all that apply.
176. Factors affecting sustainability Please select the sustainability factors affected/ modified by the current entry Check all that apply. Stress - Heat
176. Factors affecting sustainability Please select the sustainability factors affected/ modified by the current entry Check all that apply. Stress - Heat Stress - Cold
176. Factors affecting sustainability Please select the sustainability factors affected/ modified by the current entry Check all that apply. Stress - Heat Stress - Cold Stress - High humidity
176. Factors affecting sustainability Please select the sustainability factors affected/ modified by the current entry Check all that apply. Stress - Heat Stress - Cold Stress - High humidity Stress - Flood
176. Factors affecting sustainability Please select the sustainability factors affected/ modified by the current entry Check all that apply. Stress - Heat Stress - Cold Stress - High humidity Stress - Flood Stress - Drought
176. Factors affecting sustainability Please select the sustainability factors affected/ modified by the current entry Check all that apply. Stress - Heat Stress - Cold Stress - High humidity Stress - Flood Stress - Drought Stress - Salinity
176. Factors affecting sustainability Please select the sustainability factors affected/ modified by the current entry Check all that apply. Stress - Heat Stress - Cold Stress - High humidity Stress - Flood Stress - Drought Stress - Salinity Stress - Toxicity
176. Factors affecting sustainability Please select the sustainability factors affected/ modified by the current entry Check all that apply. Stress - Heat Stress - Cold Stress - High humidity Stress - Flood Stress - Drought Stress - Salinity Stress - Toxicity Stress - Nutrient overload
176. Factors affecting sustainability Please select the sustainability factors affected/ modified by the current entry Check all that apply. Stress - Heat Stress - Cold Stress - High humidity Stress - Flood Stress - Drought Stress - Salinity Stress - Toxicity Stress - Nutrient overload Stress - Nutrient deficiency
176. Factors affecting sustainability Please select the sustainability factors affected/ modified by the current entry Check all that apply. Stress - Heat Stress - Cold Stress - High humidity Stress - Flood Stress - Drought Stress - Salinity Stress - Toxicity Stress - Nutrient overload Stress - Nutrient deficiency Stress - Soil toxins
176. Factors affecting sustainability Please select the sustainability factors affected/ modified by the current entry Check all that apply. Stress - Heat Stress - Cold Stress - High humidity Stress - Flood Stress - Drought Stress - Salinity Stress - Nutrient overload Stress - Nutrient deficiency Stress - Soil toxins Stress - Soil composition
176. Factors affecting sustainability Please select the sustainability factors affected/ modified by the current entry Check all that apply. Stress - Heat Stress - Cold Stress - High humidity Stress - Flood Stress - Drought Stress - Salinity Stress - Toxicity Stress - Nutrient overload Stress - Nutrient deficiency Stress - Soil toxins Stress - Soil composition Stress - pH

Application to Scenarios (WP 1.1)

Please share your thoughts about the scenarios under which the listed example is relevant. Subjective opinions are accepted here

Scenarios from the outcome of WP 1.1



	Under which scenarios would this entry have special relevance?	
Cr	Check all that apply.	
	Scenario 1	
	Scenario 2	
	Scenario 3	
	Scenario 4	
Stop fil	o filling out this form.	
	ant growth, architecture and phenology	
	Shoot architecture anatomy and canopy profile Check all that apply.	

Phyllotaxy Self-shading Compactness Stem anatomy and composition Shoot and canopy hydraulics Vascular tissues anatomy (density, structure) and functionning Profile of photosynthetic resources

Leaf morphology/shape
Organ length/width/strength

Leaf angle (erectness)

Wound healing
Other

181. If other, specify

	eck all that apply.
	Cuticular thickness
	Wax/cutin ratio and content
	Stomatal properties (morphology, densities, distribution, location and resistance)
	Mesophyll thickness
	Mesophyll conductance
	Mesophyll resistance
	Mesophyll structure
	CAM/C3/C4 intermediary structure
	Vascular tissues anatomy (density, structure) and functionning
	Leaf hydraulics
	Stomatal aperture and functioning regulation
	Organelle properties (density, positioning and movement)
	Cellular subcellular and Ultrastructural adaptations
	Wound healing
	Other
183. If 6	other, specify
184. Gr	owth rate
Ch	neck all that apply.
	Meristem activity
	Cell division
	Growth mechanics
	Cell expansion
	Cell wall composition
	Cell turgor
	Other
185. If (other, specify

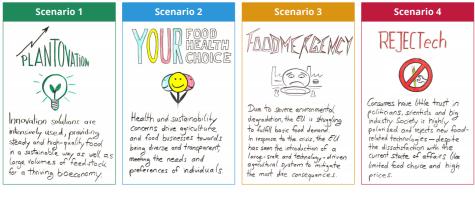
186.	Root architecture, anatomy and activity Check all that apply.
	Root length
	Root number (lateral, seminal, adventitious)
	Root growth angle
	Root density
	Root plasticity
	Root competition ability
	Root hydraulics
	Cell layer number
	Cells layers structure
	Aerenchyma (PCD)
	Cell division/elongation
	Cell wall composition
	Lignification, Suberisation
	Cellular subcellular and Ultrastructural adaptation
	Wound healing
	Storage capacity
	Respiration
	Exudation
	Other
187.	If other, specify
188.	Root/shoot coordination Check all that apply.
	Root/shoot ratio
	Root/shoot transport and signalling
	Other
189.	If other, specify
190.	Phenology Check all that apply.
	Reproductive switch
	Flower development/abortion
	Flowering time
	Flower number
	Fertilization and seed set efficiency
	Seed number/abortion
	Seed filling rate
	Inflorescence plasticity
	Early vigour
	Ageing/senescence/juvenility
	Plastid/chloroplast lifetime
	Stay-green
	Other
191.	If other, specify

Factors affecting sustainability Please select the sustainability factors affected/ modified by the current entry Check all that apply.
Stress - Heat
Stress - Cold
Stress - High humidity
Stress - Flood
Stress - Drought
Stress - Salinity
Stress - Toxicity
Stress - Nutrient overload
Stress - Nutrient deficiency
Stress - Soil toxins
Stress - Soil composition
Stress - pH
Geographical factors

Please share your thoughts about the scenarios under which the listed example is relevant. Subjective opinions are accepted here

Scenarios from the outcome of WP 1.1

None of the above/other factors/don't know, can't say



for a Thriving bioeconomy.	bieses aces of Individual (2)	the most dire consequences.	prices.	
93. Under which scenari Check all that apply.	os would this entry have	special relevance?		
Scenario 1				
Scenario 2 Scenario 3				
Scenario 4				
94. Comments to the sce	enarios			

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