ransPlant User N	leeds Surve	еу		
nitiatives launched in the field of a	agronomical research ject. The second obje	to be compared to T	ransPlant scope. The goal is	needs and to describe some existing to identify potential needs not oping initiative in the field or related
Based to this survey and on other a ransnational research for bioinform applications.				
This survey contains 41 questions.	Thanks you in advance	e for your involveme	nt.	
1. Personal information	on : Family na	me (optional		
2. First name (optiona	nl)			
		_		
		~		
3. Name of your Instit 4. Category of your p			medium	small
commercial	O		O	O
university	0		O	O
non university academic	O		O	O
academic policy-relarted	0		O	O
≭ 5. Position				
C Graduate student				
C Professor				
C Research scientist				
Other (please indicate)				
other (picase mulcate)				
6. How old are you ?				
_	31-40	C 41-50	C 51-60	C >60
_	31-40	C 41-50	C 51-60	O >60

^k 7. What are your fie	elds of experti	ise?		
Structural genomics				
Functional genomics				
Quantitative genetics				
Genetics and applied mathe	ematics and statistics			
Population genetics				
Breeding				
Agronomy				
Physiology				
Plant Biology				
Biochemistry				
Bioinformatics				
other (please specify)				
The (please specify)				
^k 8. What data are yo	g to the impor	rtance of the data c		
lease rank accordin	g to the impor	rtance of the data c	3: low priority	4: no priority
lease rank according 1 enome sequences (NGS	g to the impor	rtance of the data c		
lease rank according 1 enome sequences (NGS ncluded) equence variation (SNP,	g to the impor	rtance of the data c	3: low priority	4: no priority
lease rank according 1 enome sequences (NGS included) equence variation (SNP,	g to the impor : maximum priority	rtance of the data c 2 : medium priority	3: low priority C	4: no priority
lease rank according 1 enome sequences (NGS included) equence variation (SNP, ENV, PAV) enetics maps (markers)	g to the impor	rtance of the data c 2: medium priority	3: low priority	4: no priority C C
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TransPlant User Needs Survey f *9. What analysis do you do ? ☐ Genome structure and evolution ☐ Comparative genomics ☐ Genetic diversity / Population genetic Genotype to phenotype analysis (GWAS, QTL detection...) Breeding Map based cloning Developmental biology Gene/protein/metabolite network inferences Modeling of plant development and adaptation (to check with ecophysio) Other (please specify)

and the unit: Mb,	orage do you need to maintain your projects ? (please indicate the size Tb, Pbytes)
≭11. Do you hav why ?	e problems in accessing sufficient storage for your needs, and if so,
insufficient local infrastructure (due to high throughput scale)	You need to choose at least one choice
Insufficient human resources to manage/ develop/maintain a local infrastructure	
Other (please specify)	
12. Do vou have	unmet needs in bioinformatic analysis ?
12. Do you have	unmet needs in bioinformatic analysis ?
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-	inmet needs in bioinformatic analysis ? t your data to public repositories?
13. Do you subm	t your data to public repositories?
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13. Do you subm please give the repositories, local mame of the database type of data that you put inside	t your data to public repositories? ame(s) of the databases (international, consortium database, I database) and the type of data that you put inside
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Your own experiments produced by external platforms or production centers Public data Other (please specify) *16. What types of elaborated (compute and expertized) data do you want to share Genome sequences, assembled sequenced Resequencing data: sequence variation (SNPs, CNV, structural variants) Genotyping data (alleles, haplotypes, localisation on genomes, frequency) Annotation data (gene models, gene function prediction, gene ontologies) Genetic mapping data (maps, markers, QTLs, metaQTLs) Exome sequencing data Phenotyping data (traits, phenotypes, experimental conditions) Association studies data (traits, phenotypes, markers effects, statistical values, LD) Genomic selection data Expression data (RNASeq) Expression data (Arrays) Methylation data (ChipSeq) Repeats data (transposable elements) Small RNA Orthologous gene comparisons Other (please specify)	Your own experiments produced by external platforms or production centers Public data Other (please specify) *16. What types of elaborated (compute and expertized) data do you want to share Genome sequences, assembled sequenced Resequencing data: sequence variation (SNPs, CNV, structural variants) Genotyping data (alleles, haplotypes, localisation on genomes, frequency) Annotation data (gene models, gene function prediction, gene ontologies) Genetic mapping data (maps, markers, QTLs, metaQTLs) Exome sequencing data Phenotyping data (traits, phenotypes, experimental conditions) Association studies data (traits, phenotypes, markers effects, statistical values, LD) Genomic selection data Expression data (RNASeq) Expression data (Arrays) Methylation data (ChipSeq) Repeats data (transposable elements) Small RNA Orthologous gene comparisons	Your own experiments produced by external platforms or production centers Public data Other (please specify) ★16. What types of elaborated (compute and expertized) data do you want to share Genome sequences, assembled sequenced Resequencing data: sequence variation (SNPs, CNV, structural variants) Genotyping data (alleles, haplotypes, localisation on genomes, frequency) Annotation data (gene models, gene function prediction, gene ontologies) Genetic mapping data (maps, markers, QTLs, metaQTLs) Exome sequencing data Phenotyping data (traits, phenotypes, experimental conditions) Association studies data (traits, phenotypes, markers effects, statistical values, LD) Genomic selection data (Expression data (RNASeq) Expression data (RNASeq) Expression data (ChipSeq) Repeats data (trainsposable elements) Small RNA Orthologous gene comparisons	your own experiments produced by external platforms or production centers Public data Other (please specify) ★16. What types of elaborated (compute and expertized) data do you want to share a general sequence, assembled sequenced Resequencing data: sequence variation (SNPs, CNV, structural variants) Genotyping data (alleles, haplotypes, localisation on genomes, frequency) Annotation data (gene models, gene function prediction, gene ontologies) Genetic mapping data (maps, markers, QTLs, metaQTLs) Exome sequencing data Phenotyping data (traits, phenotypes, experimental conditions) Association studies data (traits, phenotypes, markers effects, statistical values, LD) Genomic selection data Expression data (RNASeq) Expression data (Arrays) Methylation data (ChipSeq) Repeats data (transposable elements) Small RNA Orthologous gene comparisons	Othe	Your own experiments produced in your lab Your own experiments produced by external platforms or production Public data er (please specify)	centers
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Repeats data (transposable elements) Small RNA Orthologous gene comparisons	Repeats data (transposable elements) Small RNA Orthologous gene comparisons	Repeats data (transposable elements) Small RNA Orthologous gene comparisons	Repeats data (transposable elements) Small RNA Orthologous gene comparisons		Expression data (Arrays)	
☐ Small RNA ☐ Orthologous gene comparisons	☐ Small RNA ☐ Orthologous gene comparisons	☐ Small RNA ☐ Orthologous gene comparisons	☐ Small RNA ☐ Orthologous gene comparisons		Methylation data (ChipSeq)	
Orthologous gene comparisons	Orthologous gene comparisons	Orthologous gene comparisons	Orthologous gene comparisons		Repeats data (transposable elements)	
					Small RNA	
Other (please specify)	Other (please specify)	Other (please specify)	Other (please specify)		Orthologous gene comparisons	
				Othe	er (please specify)	

gene annotations and variation data gene annotations and genetic mapping (markers, QTL, metaQTLs) data genes annotations and association studies data (effects of SNP markers on traits) gene annotations with all objects mapped around: variations, markers, QTL, expression, repeats genotyping and phénotyping data gene annotations and gene networks gene annotations, protein and metabolites gene orthologous species comparison system biology Other (please specify) 18. Please specify your preferred relevance criteria to sort results from database queries age taxonomy data source (for integrated search) keywords in hit description manual screening of results authors	gene annotations and variation data gene annotations and genetic mapping (markers, QTL, metaQTLs) data genes annotations and association studies data (effects of SNP markers on traits) gene annotations with all objects mapped around: variations, markers, QTL, expression, repeats genotyping and phénotyping data gene annotations and gene networks gene annotations, protein and metabolites gene orthologous species comparison system biology Other (please specify) 18. Please specify your preferred relevance criteria to sort results from database queries age taxonomy data source (for integrated search) keywords in hit description manual screening of results authors	gene annotations and genetic mapping (markers, QTL, metaQTLs) data genes annotations and association studies data (effects of SNP markers on traits) gene annotations with all objects mapped around: variations, markers, QTL, expression, repeats genotyping and phénotyping data gene annotations and gene networks gene annotations, protein and metabolites gene orthologous species comparison system biology Other (please specify) 18. Please specify your preferred relevance criteria to sort results from database queries age taxonomy data source (for integrated search) keywords in hit description manual screening of results	_	
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genes annotations and association studies data (effects of SNP markers on traits) gene annotations with all objects mapped around: variations, markers, QTL, expression, repeats genotyping and phénotyping data gene annotations and gene networks gene annotations, protein and metabolites gene orthologous species comparison system biology Other (please specify) 18. Please specify your preferred relevance criteria to sort results from database queries age taxonomy data source (for integrated search) keywords in hit description manual screening of results authors	genes annotations and association studies data (effects of SNP markers on traits) gene annotations with all objects mapped around: variations, markers, QTL, expression, repeats genotyping and phénotyping data gene annotations and gene networks gene annotations, protein and metabolites gene orthologous species comparison system biology Other (please specify) 18. Please specify your preferred relevance criteria to sort results from database queries age taxonomy data source (for integrated search) keywords in hit description manual screening of results authors	gene annotations and association studies data (effects of SNP markers on traits) gene annotations with all objects mapped around: variations, markers, QTL, expression, repeats genotyping and phénotyping data gene annotations and gene networks gene annotations, protein and metabolites gene orthologous species comparison system biology Other (please specify) 18. Please specify your preferred relevance criteria to sort results from database queries age taxonomy data source (for integrated search) keywords in hit description manual screening of results authors		gene annotations and variation data
gene annotations with all objects mapped around: variations, markers, QTL, expression, repeats genotyping and phénotyping data gene annotations and gene networks gene annotations, protein and metabolites gene orthologous species comparison system biology Other (please specify) 18. Please specify your preferred relevance criteria to sort results from database queries age taxonomy data source (for integrated search) keywords in hit description manual screening of results authors	gene annotations with all objects mapped around: variations, markers, QTL, expression, repeats genotyping and phénotyping data gene annotations and gene networks gene annotations, protein and metabolites gene orthologous species comparison system biology Other (please specify) 18. Please specify your preferred relevance criteria to sort results from database queries age taxonomy data source (for integrated search) keywords in hit description manual screening of results authors	gene annotations with all objects mapped around: variations, markers, QTL, expression, repeats genotyping and phénotyping data gene annotations and gene networks gene annotations, protein and metabolites gene orthologous species comparison system biology Other (please specify) 18. Please specify your preferred relevance criteria to sort results from database queries age taxonomy data source (for integrated search) keywords in hit description manual screening of results authors		gene annotations and genetic mapping (markers, QTL, metaQTLs) data
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gene annotations and gene networks gene annotations, protein and metabolites gene orthologous species comparison system biology Other (please specify) 18. Please specify your preferred relevance criteria to sort results from database queries age taxonomy keywords in hit description manual screening of results authors	gene annotations and gene networks gene annotations, protein and metabolites gene orthologous species comparison system biology Other (please specify) 18. Please specify your preferred relevance criteria to sort results from database queries age taxonomy keywords in hit description manual screening of results authors	gene annotations, protein and metabolites gene orthologous species comparison system biology Other (please specify) 18. Please specify your preferred relevance criteria to sort results from database queries age taxonomy data source (for integrated search) keywords in hit description manual screening of results authors		gene annotations with all objects mapped around: variations, markers, QTL, expression, repeats
gene annotations, protein and metabolites gene orthologous species comparison system biology Other (please specify) 18. Please specify your preferred relevance criteria to sort results from database queries age taxonomy data source (for integrated search) keywords in hit description manual screening of results authors	gene annotations, protein and metabolites gene orthologous species comparison system biology Other (please specify) 18. Please specify your preferred relevance criteria to sort results from database queries age taxonomy data source (for integrated search) keywords in hit description manual screening of results authors	gene annotations, protein and metabolites gene orthologous species comparison system biology Other (please specify) 18. Please specify your preferred relevance criteria to sort results from database queries age taxonomy data source (for integrated search) keywords in hit description manual screening of results authors		genotyping and phénotyping data
gene orthologous species comparison system biology Other (please specify) 18. Please specify your preferred relevance criteria to sort results from database queries age taxonomy data source (for integrated search) keywords in hit description manual screening of results authors	gene orthologous species comparison system biology Other (please specify) 18. Please specify your preferred relevance criteria to sort results from database queries age taxonomy data source (for integrated search) keywords in hit description manual screening of results authors	gene orthologous species comparison system biology Other (please specify) 18. Please specify your preferred relevance criteria to sort results from database queries age taxonomy data source (for integrated search) keywords in hit description manual screening of results authors		gene annotations and gene networks
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Other (please specify) 18. Please specify your preferred relevance criteria to sort results from database queries age taxonomy data source (for integrated search) keywords in hit description manual screening of results authors	Other (please specify) 18. Please specify your preferred relevance criteria to sort results from database queries age taxonomy data source (for integrated search) keywords in hit description manual screening of results authors	Other (please specify) 18. Please specify your preferred relevance criteria to sort results from database queries age taxonomy data source (for integrated search) keywords in hit description manual screening of results authors		gene orthologous species comparison
18. Please specify your preferred relevance criteria to sort results from database queries age taxonomy data source (for integrated search) keywords in hit description manual screening of results authors	18. Please specify your preferred relevance criteria to sort results from database queries age taxonomy data source (for integrated search) keywords in hit description manual screening of results authors	18. Please specify your preferred relevance criteria to sort results from database queries age taxonomy data source (for integrated search) keywords in hit description manual screening of results authors		system biology
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				keywords in hit description
Other (please specify)	Other (please specify)	Other (please specify)		keywords in hit description manual screening of results
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				keywords in hit description manual screening of results authors
				keywords in hit description manual screening of results authors
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10	What types of data should be released publicly in standard data formats?
	contigs
	chromosomes
	primers
	cDNA
	statistical parameters values from experimental or analysis software
	SNP markers
	genotyping values
	phenotyping values
	maps
Othe	er (please specify)
	<u></u>
21	What types of tools for visualization and browsing are you using :
ple	ase indicate for each tool: its name, its provider, the URL web to access it (if exists), is a public or private resource
	Do you need additional tools for query and if yes, which tools or functionalities are ssing today ?

	A specific domain that is insufficiently well developped	1?
	a problem of data access ?	
_		
	a problem of data integration ?	
)the	er (please specify)	
		~
	What is your prefered way to get in abases, tools and services?	nformed about updates and new to
a	passive - check by my own	
	social media (e.g. facebook, twitter, google+)	
	mailing lists	
	science newsletter	
	RSS feed	
)the	er (please specify)	
	er (prease specify)	
5.	What would your dream bioinform	atics resource allow you to do that you cannot d
5.		
5.	What would your dream bioinform	
5. t 1	What would your dream bioinformathe moment?	
5. t 1	What would your dream bioinformathe moment?	atics resource allow you to do that you cannot d
25. t 1	What would your dream bioinformathe moment? Do you need to be able to upload d	atics resource allow you to do that you cannot do
6. 7.	What would your dream bioinformathe moment? Do you need to be able to upload d	atics resource allow you to do that you cannot do
5. t 1 6. 7.	What would your dream bioinformathe moment? Do you need to be able to upload decomposed to be able to co-analy	atics resource allow you to do that you cannot do ata to analyse against the public data sets? no rese private (confidential) and public data?

ransPlant User 29. How do you no		compute resources	?	
☐ Central power unit (CPL	-			
☐ CPU on a private Cloud				
CPU on a public Cloud	?			
Other (please specify)				
		T V		
for each tool: the s category (Assembl	source of these s ly, gene annotat nalysis, RNASeq	software (opensour tion, repeats annota ¡ analysis, ChipSeq	ce, company, lo ations, QTL ana	- '
indicate the sets	_			_
		en analysing your da		egories
*32. Do you have		en analysing your da		egories
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*32. Do you have		en analysing your da		egories
*32. Do you have		en analysing your da		egories

	nsPlant User Needs Survey
33.	If yes, why is it difficult ?
	Little relevant data is available about my species of interest
	Because of your species complexity
	Poor or inadequate software documentation
	Limited information about strengths/weaknesses of available software
	No bioinfomatics/statistics support available
	Problems in hiring appropriately skilled staff
	Large scale data (algorithm or tool not well adapted)
	Rapid technological change
Oth	er (please specify)
	Are you involved in projects in which bioinformatics developments are
on	going/planned? yes
	7

TransPlant User Needs Survey	
35. Give the name of the project, its fund	ding (if it is not confidential)
36. Do you need help in understanding so	software developments ?
~ yes	

FransPlant User Needs Survey	
37. If yes, please indicate to do what	
38. Do you need help in bioanalysis?	
C yes	C no

39. if yes: to analyse what	t ?
,	
0. The transPLANT projec	ct is attempting to coordinate activities in plant bioinformatics
	would you like the project to undertake to support the
community?	
A unique web portal to get news, to	get list or resources and tools, to access to integrated data
☐ A forum of discussion and exchange	е
A annual or binannual meeting	
☐ User training sessions (software, data	a access, analysis,)
Newsletters, one or twice a year	
Other (please specify)	
	ments or recommandation to add, helping bioinformatics
	• • •
11. Do you have any comn	• • •
l1. Do you have any comn	• • •
11. Do you have any comn	• • •
11. Do you have any comn	• • •
11. Do you have any comn	• • •
1. Do you have any comn	• • •
11. Do you have any comn	• • •
l1. Do you have any comn	• • •