



KNOWLEDGE CENTRE FOR AGRICULTURE

# Biovalue SPIR – wp1

12. November 2014

**Michael Støckler**  
Head of department  
Bioenergy





Biovalue – WP1.

Innovative biomass production systems, harvest and conservation technologies

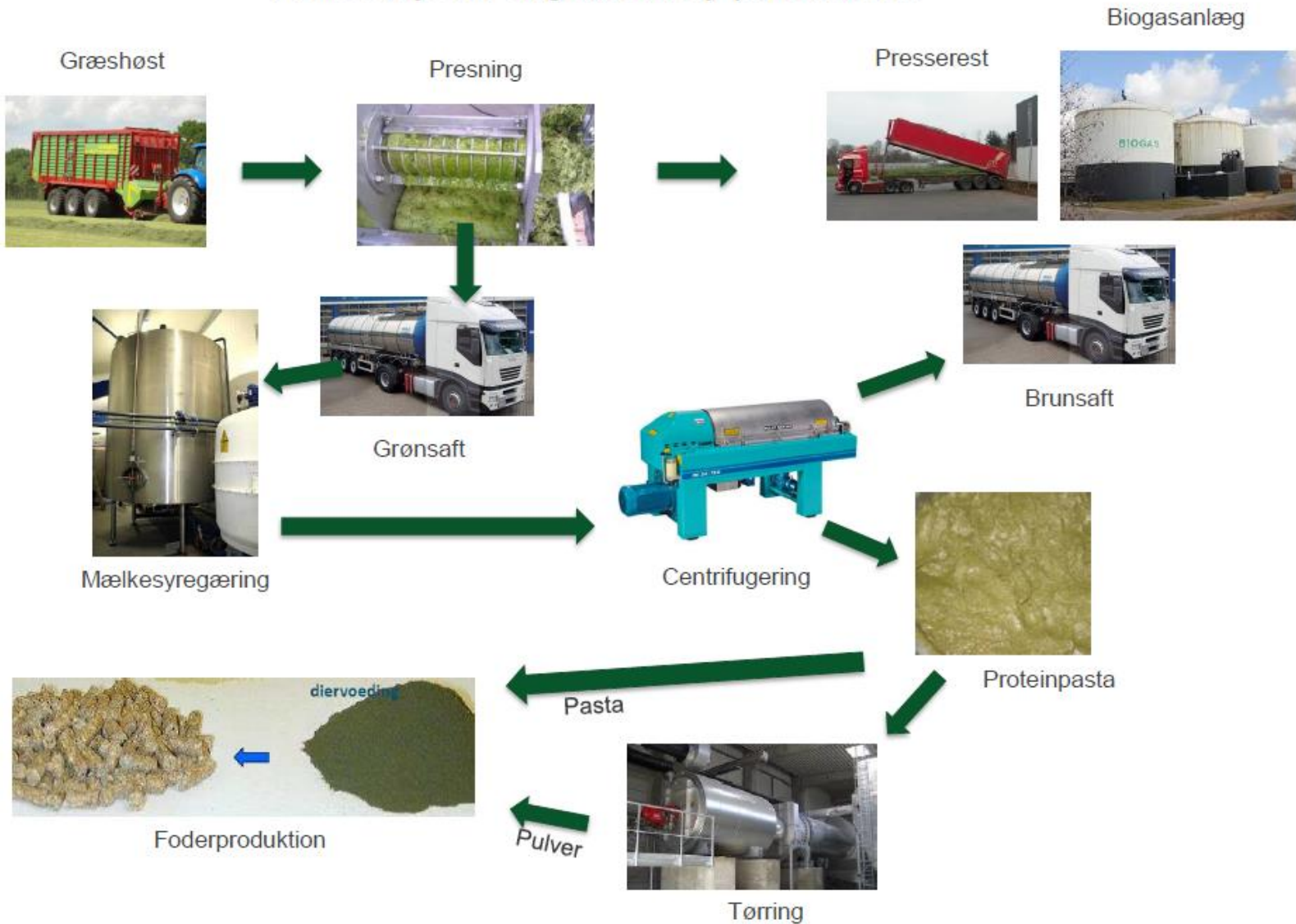
**Agenda for BioValue joint meeting of Projekt 1 + Projekt 2,  
November 12, 2014**

**Karup Kartoffelmelfabrik Amba, Engholmvej 19, 7470  
Karup, Danmark.**

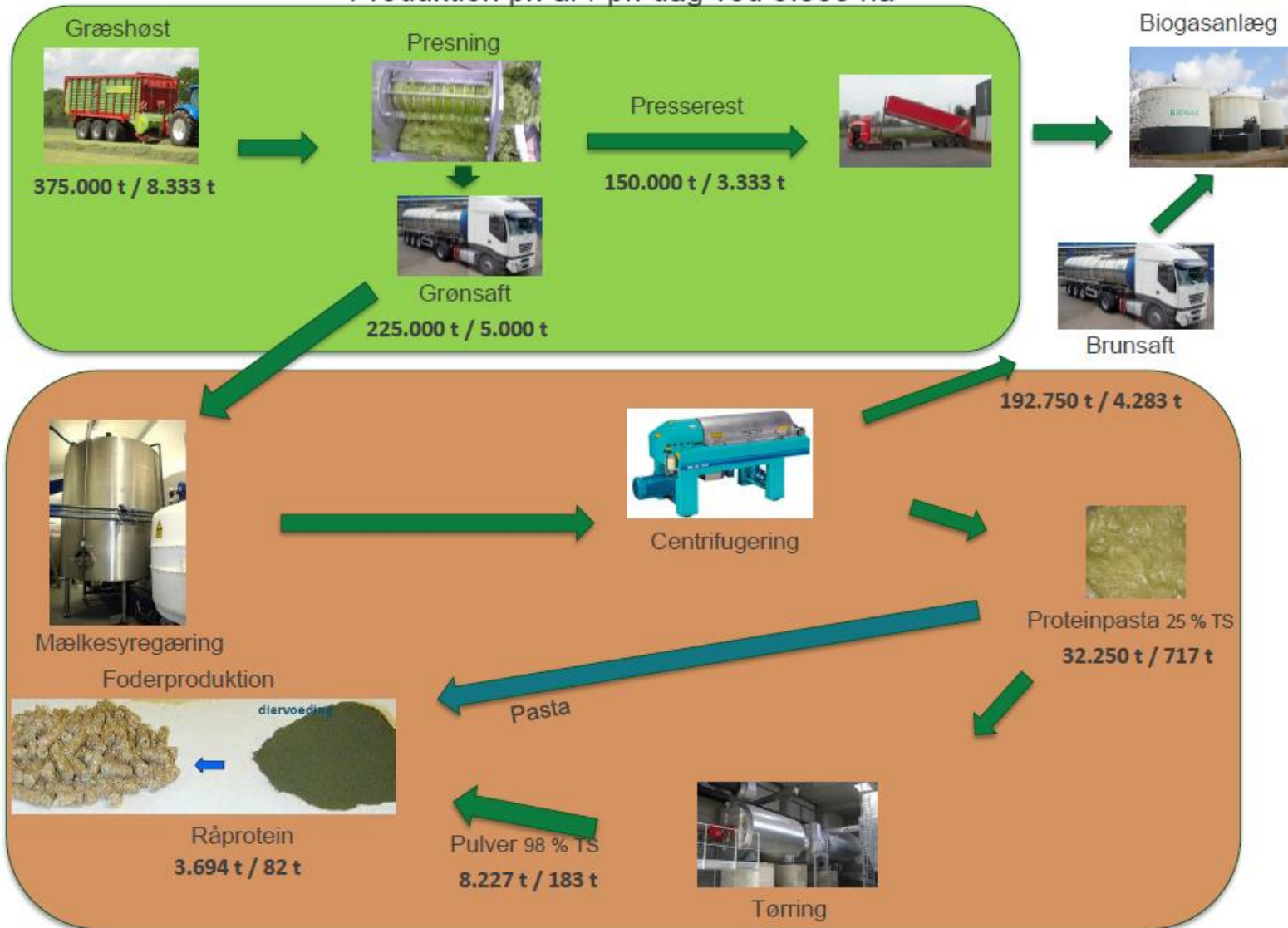
Agenda	Purpose	Responsible
1. Welcome 10.00-10.10 (10 min)	Short round of names	KU
1. Project 1 status 10.10-11.45 (110 min)	Presentation of current status of results from experimental work: WP1 status and results presented by:	
10.10	AgroTech (Søren Ugilt Larsen)	AgroTech
10.25	AU (Uffe Jørgensen/Zeniab Solati)	AU
10.40	KU/Sejet (Pernille Hansen/Birger Eriksen)	KU/Sejet
10.55	KU (Jan van Hecke)	KU P1
11.10	VFL (Lone Abildgaard)	VFL
11.25	Biomass list (Michael Stöckler) Max 10 min from each partner on results, 5 min for questions and coordination after each presentation	
1. Lunch 11.45-12.30 (45 min)		
1. Site visit 12.30-13.30	Visit pilot plant and production site	KMC
1. Project 2 status 13.30-14.30 (60 min)	WP2 status and results presented by:	
13.30	KU (Christian Bukh)	
13.45	AU (Søren Krogh Jensen)	KU
14.00	AU (Morten Ambye-Jensen)	AU
14.15	AAU (Gleb Dotshenko)	AAU
1. Planning next part of the projects (SPLIT into P1 and P2 groups?) 14.30-15.30	Where are we now compared to the project plan (GANTT or MS projects)? Discussion and decision on how to proceed. Annual project reports 2014 and activity plan 2015? Deliverable reports?	
1. Next meeting 15.30 (5 min)	Next meeting(s); date(s), venues and content	
1. AOB	Any other business	



## Proceslinje for OrganoFinery-proteinfoder



Proceslinje for OrganoFinery-proteinfoder  
 Produktion pr. år / pr. dag ved 5.000 ha



## Aktiviteterne i OrganoFinery (for ca. 10 mio. kr.)

1. Dyrkningsforsøg med grøntafgrøder
2. Høst og udvinding af proteinkoncentrat ved hjælp af mælkesyregæring og mekanisk opkoncentrering
3. Produktion og afprøvning af proteinrigt økologisk fjerkræfoder
4. Omdannelse af restfraktion i biogasanlæg, der udvinder energi og producerer effektiv økologisk gødning
5. Forretningsudvikling
6. Vurdering af potentiale for opskalering og samfundsmæssige betydning

## OrganoFinery

<b>Name</b> <i>Navn</i>	<b>Title</b> <i>Stilling</i>	<b>No. of hours</b> <i>Timeantal</i>	<b>Institution/company</b> <i>Institution/virksomhed</i>
Mette Lübeck	Assoc. Prof.	1100	Aalborg University AAU
Hinrich Uellendahl	Assoc. Prof.	680	Aalborg University AAU
Birgitte Kier Ahring	Prof.	50	Aalborg University AAU
Beatriz Molinuevo Salces	Post Doc.	4932	Aalborg University AAU
Pauli Kiel	Director	800	Biotest Aps (subcontractor to AAU)
Erik Fog	Nat. Sepcialist	600 ●	Knowledge Center for Agriculture VFL
Inger Bertelsen	Chief adviser	300	Knowledge Center for Agriculture, VFL
Niels Finn Johansen	Nat. Specialist	300	Knowledge Center for Agriculture VFL
Kristian Thorup Kristensen	Professor	400 ●	University of Copenhagen, KU-PLEN
Sanna Steinfeldt	Senior Scientist	400 ●	Aarhus University AU
Jens Legarth	Director	400	Fermentationexperts A/S
Morten Gylling	Senior Advisor	400 ●	University of Copenhagen, KU-IFRO
Karen Hamann	Director	500	Institute for Food Studies and Agricultural Development IFAU
Søren Ugilt Larsen	Senior Advisor	160 ●	AgroTech A/S



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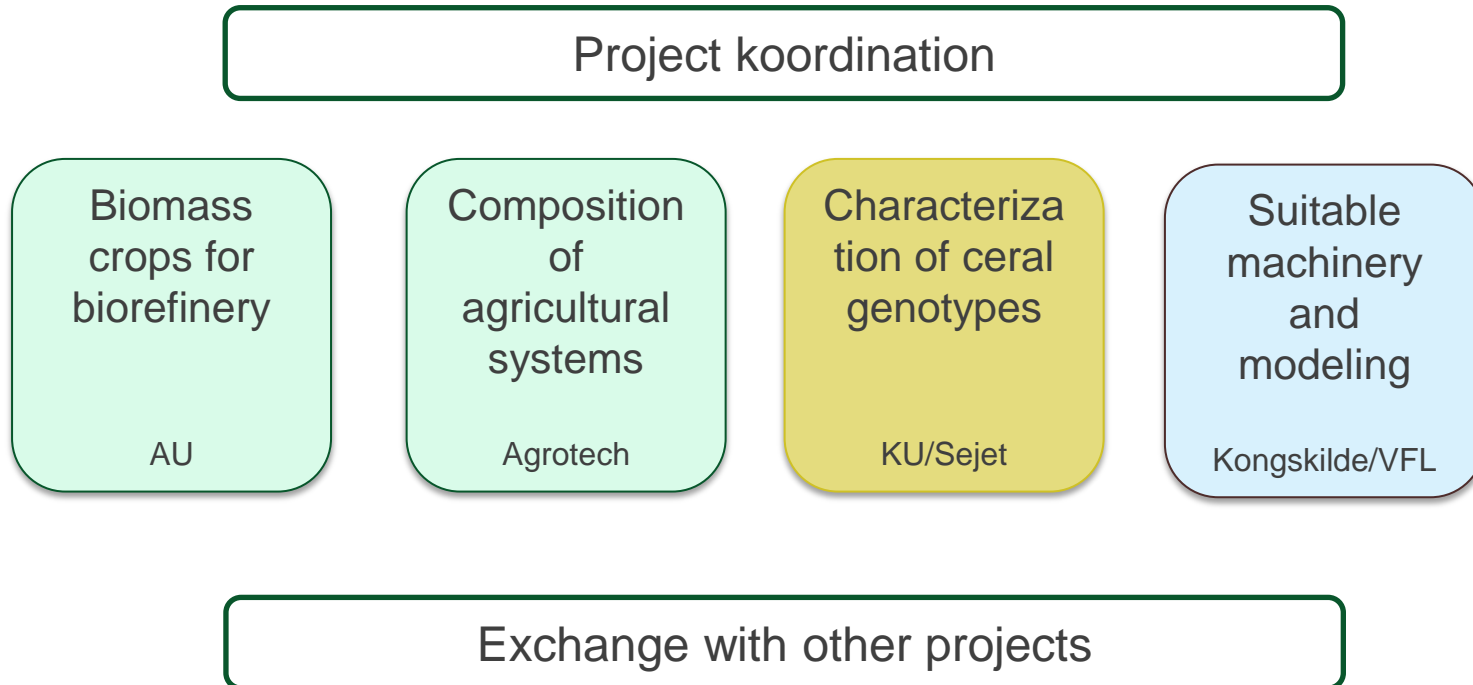
**The experimental work focuses on:**

- Composition of agricultural systems and yield optimization
- Characterization and molecular mapping of cereal genotypes
- Development of machinery and modeling

**Experimental activities planned first year**

1. Experimental plan A - Biomass crops for biorefinery, AU
2. Experimental plan B – Composition of agricultural systems, Agrotech
3. Experimental plan C – Characterization of cereal genotypes, Sejet/KU
4. Development of suitable machinery and modeling, Kongskilde/VFL

## Experimental activities planned first year





2014																
ID nr.	Experimental activities - cropping	Plot size m*m	Plot size ha	Expected Yield tons TS/ha	Estm. dry %	Expected harvest		Harvest time		Storage time	Sample size	Stored as	Stored at	Planned analyses		
						kg TS	kg	Start	End	Mdr.	kg	frozen/dry		A	B	C
	<b>AU Crop rotation large plots - Foulum</b>															
AU-F 1	<b>1 Triticale + Italian ryegrass/red clover</b>															
	Harvest triticale whole crop	12*20	0,024	7,5	92	180	196	10-07-2014	17-07-2014	10	1,5 f		AU		3	
	Harvest grass clover	12*20	0,024	8,1	91	194	214	01-10-2014	15-10-2014	8	1,5 f		AU		3	
AU-F 2	<b>2 Maize + winter rye</b>															
	Harvest maize	12*20	0,024	2,5	25	60	240	01-10-2014	01-11-2014	8	1,5 f		AU		3	
	Harvest winter rye	12*20	0,024	11,2	55	269	489	01-04-2015	15-05-2015	12	1,5 f		AU		3	
AU-F 3	<b>3 Fodder beet</b>															
	Harvest tops															
	Harvest roots	12*20	0,024	26,6	25	638	2.554	01-11-2014	21-11-2014	12	1,5 f		AU		3	
AU-F 4	<b>4 Hemp</b>															
	Harvest hemp	12*20	0,024	12,7	65	305	469	01-09-2014	15-09-2014	10	1,5 f		AU		3	
AU-F 5	<b>5 Grain crop rotation</b>															
	Harvest kernels	12*20	0,024	9,4	90	226	251	01-08-2014	20-08-2014	10	5 d		AU		3	
	Harvest straw	12*20	0,024	4,5	87	108	124	01-08-2014	20-08-2014	10	5 d		AU		3	
	<b>AU Permanent crop large plots - Foulum</b>															
AU-F 6	<b>6 Miscanthus giganteus</b>															
	Harvest	12*20	0,024	3,5	50	84	168	01-10-2014	21-10-2014	8	1,5 f		AU		3	
AU-F 7	<b>7 Miscanthus sacchariflorus</b>															
	Harvest	12*20	0,024	0,4	50	10	19	01-10-2014	21-10-2014	8	1,5 f		AU		3	
AU-F 8	<b>8 Festulolium (tall fescue x perennial)</b>															
	Harvest 1	12*20	0,024	11,5	50	276	552	01-05-2014	30-05-2014	8	1,5 f		AU		3	
	Harvest 2	12*20	0,024	7,5	50	180	360	01-08-2014	30-08-2014	8	1,5 f		AU		3	

