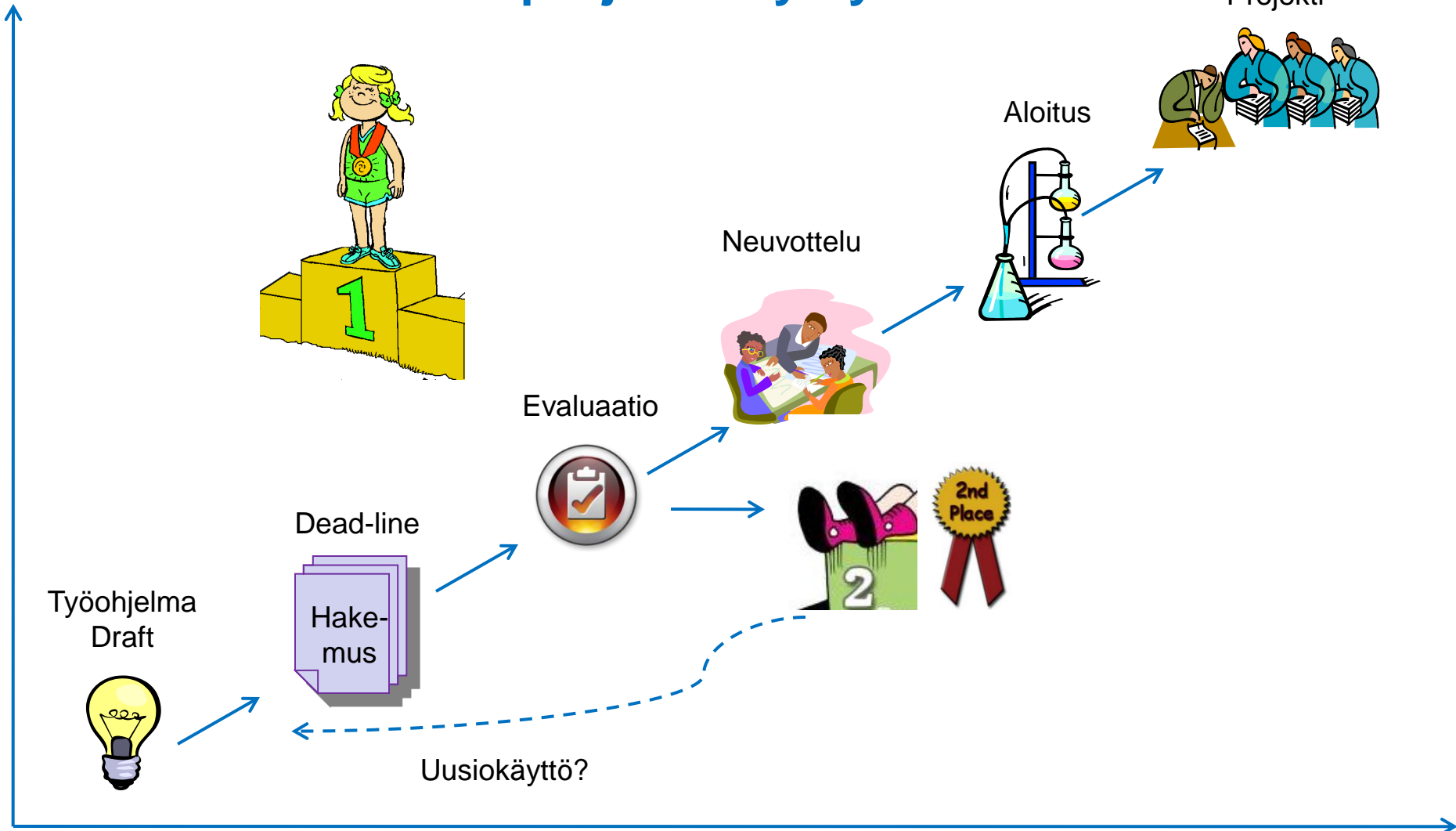


Tutkimuslaitoksen kokemuksia 7. puiteohjelmasta

Prof. Johanna Buchert

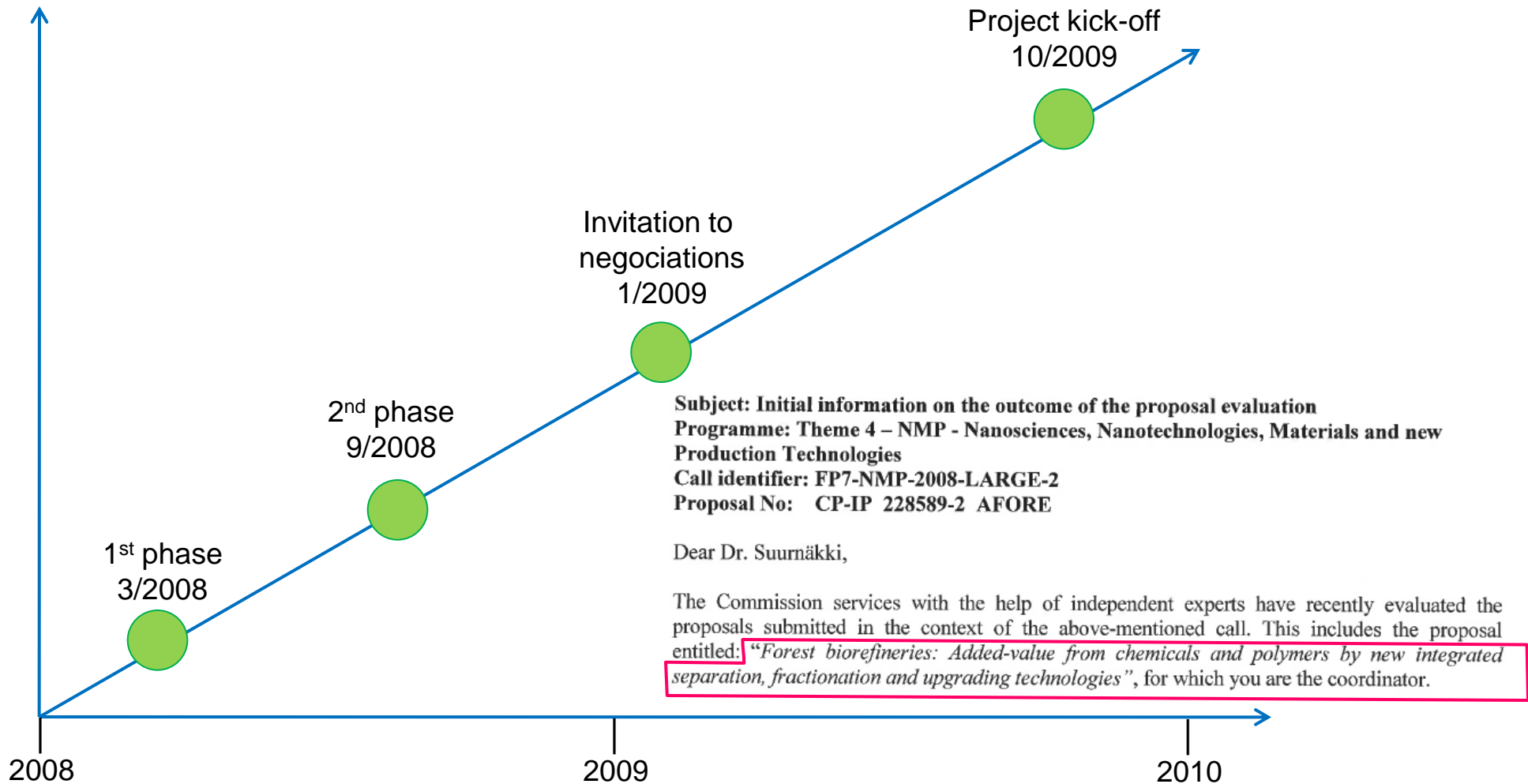
VTT Technical Research Centre of Finland

EU-projektin syntyvaiheet





Forest biorefineries (Afore) timetable





Proposal full title

Forest biorefineries: Added-value from chemicals and polymers by new integrated separation, fractionation and upgrading technologies

Proposal acronym: AFORE

Type of funding scheme: Collaborative Project (Large scale integrating project)

Work programme topics addressed: NMP-2008-4.0-6 Sustainable new products and markets through bioproduction of green forest-based chemicals and materials

Call identifier: FP7-NMP-2008-LARGE-2

Name of the coordinating person: Dr. Anna Suurnäkki

Participant number	Participant organisation name	Country
1 (coordinator)	VTT Technical Research Centre of Finland (VTT)	FI
2	STFI-Packforsk (STFI)	SE
3	OY Keskuslaboratorio-Centrallaboratorium AB (KCL)	FI
4	University of Aveiro (UAVER)	PT
5	Fraunhofer Institute for Applied Polymer Research (FhG-IAP)	DE
6	University of Helsinki (UHEL)	FI
7	Kompetenzzentrum Holz GmbH Wood K plus (Wood K plus)	AT
8	Center for Research and Technology-Hellas (CERTH)	GR
9	SINTEF	NO
10	"Petru Poni" Institute of Macromolecular Chemistry (PPIMC)	RO
11	Technical University of Lisbon (UTL)	PT
12	Södra Cell AB* (Södra)	SE
13	ALTRI, SPGS, S.A.* (ALTRI)	PT
14	Oy Separation Research Ab (SepRes)**	FI
15	NATEX Prozesstechnologie GesmbH (NATEX) **	AT
16	Granit Recherche Développement SA (GRD) **	CH
17	Akzo Nobel (Akzo) *	NL
18	Hte AG (Hte) **	DE
19	Danisco A/S*	DK
20	University of Maine (UMA)	US
21	Raw material refining company* (negotiations on-going)	
22	Process machinery company (negotiations on-going)	
23	Fractionation technology company** (negotiations on-going)	
24	Industrial end-user* (negotiations on-going)	

*Industrial partner, ** SME

Evaluation Summary Report for Large Collaborative Projects

Proposal No. : 228589-2 Acronym : AFORE

Was this proposal considered by the expert evaluators to be in the scope of this call?	Yes
1. Scientific and/or technological excellence (relevant to the topics addressed by the call) (Threshold 4/5) The proposal AFORE is highly relevant to the objectives of the call addressing a well-defined strategy for the production of green based chemicals. The quality of S/T methodology appears high and includes some of the methods and technologies which have been	Mark: 4,3 / 5
2. Quality and efficiency of the implementation and the management (Threshold 3/5) The proposed management structure is appropriate to ensure a constant monitoring and control of the activity of the consortium. The proposed organisational structure ensures an appropriate information exchange between academic and industrial partners, aiming to a very efficient exploitation of the research results.	Mark: 4,4 / 5
3. Potential impact through the development, dissemination and use of project results (Threshold 4/5) The proposal is clearly focussed on the exploitation and development of processing routes from wood residues to end products, through an elaborate array of fractionation, separation and additional synthesis methodologies. The proposers have selected those products, mainly related to xylan and lignin which have clear commercial or marketable products. Market applications for select groups of chemical derivatives are well defined.	Mark: 4,5 / 5
Other remarks (Threshold 12/15) Overall, the quality of the proposal is very high. More focus on the commercial realisation of the products is needed at an earlier stage in the process. A market plan and commercial assessment with actual values of chemical products and quantities is required.	Total score: 13,2 / 15



Plants as Green Factories EU-project – SmartCell 2009-2012



We aim at rational design of plant systems for sustainable generation of value-added industrial products

Main goal is to develop comprehensive understanding and enabling technologies to control and engineer plants and plant cells towards rational production of high-value small molecules for industrial use.

Evaluation score 14.5/15

Coordinator:

VTT

Dr Kirsi-Marja Oksman

Partners:

14 academic partners from leading European universities and research institutes and four industrial partners

Budget: 8.44 M€

FP7-KBBE-2007-3-1-09
Green Factory

Haasteet

- Valmistelurahoitus
 - TEKESin tuki ollut merkittävä
 - v. 2011-?
- Draft-ohjelmien saaminen mahdollisimman varhaisessa vaiheessa
 - Konsortioiden rakentaminen mahd. aikaisin
- 1- vaiheinen vs. 2-vaiheinen haku
 - Ehdottomasti pitäisi pyrkiä 2-vaiheiseen hakuprosessiin
 - 1-vaiheen karsinnan oltava tarpeeksi tiukkaa, success rate 2-vaiheessa p.o. 50%
 - Nyt ollut 10% joissakin tapauksissa
- Evaluaatiotuloksesta projektin alkuun, kesto liian pitkä
 - Ideat happanee

Konsortio

- SME vaatimus useassa topiikissa 35% -> liian suuri RTD hankkeissa
 - Euroopasta ei ehkä löydy tarpeeksi SME:tä, jotka pystyvät vastaamaan haasteeseen
 - Hakubyrokratia raskas SME:lle
 - Tutkimuksen ja käytännön gappi
 - Kaikki kontaktoivat tutkimusintensiivisiä SME:tä
 - Tarvitaan selkeästi tutkimuksellisia ja selkeästi implementoivia hankkeita!
- Tulosten demonstrointi tärkeää
 - Sopivat pilotit Euroopassa kullanarvoisia

Koordinaattoriksi vs. partneriksi

- Koordinaattori määrää kaapin paikan
 - Ehdottomasti kannattaa
 - Hyvä konsortio -> projektin johto helppoa
- Management –rahoitus liian pieni projekteissa
 - 7% EU kontribuutiosta
 - Ei riitä

VTT:n kokemuksia eri instrumenteista

Instrumentti	Kokemus
CP (Small, large)	Kova hakupaine, hyväkään konsortio ei riitä, jos joku 0.5 pistettä parempi ja yksi rahoitetaan, teollisuuspartnreiden löytäminen voi olla vaikeaa (SME osuus)
Research for SME associations	Vaikea instrumentti, konsortiossa pitää olla sekä liittoja että SME:tä, impakti eri partnereille?
Research for SMEs	Innovatiivisille SME:lle hyvä, byrokratia voi olla vaativaa, tutkimuslaitokset tueksi/koordinaattoreiksi, tutkimuslaitokset alihankkijoina
People	Koulutusaspekti tärkeä, tutkimuslaitoksen vaikea osoittaa, erittäin hyvä instrumentti tutkimuksen tekemiseen, myös teollisuudelle, hakupaine kova

Suomen oman agendan entistä vahvempi syöttö komissioon: Kansallinen itsekkyyks vahvemmmaksi



**VTT creates business from
technology**