



# **DREAM**

**Design and development of REAListic food Models with well-characterised micro- and macro-structure and composition**

Grant agreement number: FP7-222654-2

**Large-scale integrating collaborative project**  
**SEVENTH FRAMEWORK PROGRAMME**

**Priority: Food, Agriculture and Fisheries, Biotechnology**

## **Deliverable D8.3**

**Training session for industrialists – interim report**  
**Report subtitle: Training session for young researchers**

**Due date:** M30

**Actual submission date:** M44

**Project start date:** 1<sup>st</sup> May 2009 **Duration:** 48 months

**Workpackage concerned:** 8

**Concerned workpackage leader:** Peter Raspor

**Concerned task leader:** Andras Sebok

**Concerned task leader:** Nathalie Perrot

**Dissemination level:** PU (public)

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## **I. Description of the deliverable**

The training session targeted industry, food representatives and young researchers. Number and duration of the training session: two trainings per 0, 5 days.

The D8.3 – Training session for industrialists combines activities from T8.1 (Dissemination to the industry and food authorities) and T8.3 (Training and career development). This kind of combination of activities enabled introduction of novelties (targeting audience) and at the same time (due to the dialogue) learning from experience important especially for young researchers.

### **a. Description of the Task T8.1 – Dissemination to the industry and food authorities**

With the purpose to implement new concepts and techniques, such as food modeling, the training session for industry (especially SMEs) and food authorities has been organised.

Training was carried out on national level with the purpose to create awareness; to encourage the first user and to induce a multiplication effect. Language of dissemination is due to specific terminology referring to food modeling bilingual (national and English language). The training enabled dialogue between lecturer and audience. Training session consisted of set of slides for presentation which covered each group of models.

### **b. Description of the Task T8.3 – Training and career development**

For the efficient technology transfer it is important that young researchers shall understand the needs of the industry, the way how the industry thinks and operates, and the requirements of the daily operation in the industry in terms of process, quality and food safety management, and also the specific priorities, conditions, resources and constrains of the SMEs.

## **II. The objectives of the task T8.3**

- Present the novelties in food research and technology transfer
- Provide training for the young food expert's
- Networking

### III. Deliverable procedure

#### Planning and organisation of the workshop

##### First part of the deliverable (Venue: Ljubljana, SI)

Key steps in event planning	Project partner
Development of the event concept (purpose of the event, type of the event, audience type, date and venue - first suggestion)	UL-BF
Determination of the feasibility of the event (cost, facilities & equipment)	UL-BF
Event planning (set dates-final, times, deadlines, consultation with project partners for input)	CCHU, UL-BF
Event preparation	UL-BF
Event evaluation	CCHU, UL-BF
Publicity	UL-BF

**Table 1a: Key steps in workshop planning – workshop 1.**

##### Second part of the deliverable (Venue: Paris, FR)

Key steps in event planning	Project partner
Development of the event concept (purpose of the event, type of the event, audience type, date and venue - first suggestion)	INRA-CNRS
Determination of the feasibility of the event (cost, facilities & equipment)	INRA-CNRS
Event planning (set dates-final, times, deadlines, consultation with project partners for input)	INRA-CNRS
Event preparation	INRA-CNRS
Publicity	INRA-CNRS

**Table 2b: Key steps in workshop planning – workshop 2.**

##### Third part of the deliverable (Venue: Budapest, HU)

Key steps in event planning	Project partner
Development of the event concept (purpose of the event, type of the event, audience type, date and venue - first suggestion)	CCHU
Determination of the feasibility of the event (cost, facilities & equipment)	CCHU
Event planning (set dates-final, times, deadlines, consultation with project partners for input)	CCHU
Event preparation	None
Publicity	UL-BF, CCHU

**Table 3c: Key steps in workshop planning – workshop 3.**

## Deliverable outcomes

### a. Venue and Duration of the workshop

The first workshop has been organized by the DREAM (EU 7FP) and the TuBeSafe (ATLANTIS) project at the Biotechnical Faculty, University of Ljubljana on 17<sup>th</sup> May 2011 from 9:00 until 13:00.

The second workshop has been organised by collaboration of following institutes: AgroParisTech, ISCPIF, INRIA, Cemagref, DREAM, UPMC, INRA, CNRS, LIP6, Université Val de marne at Institut des Systèmes Complexes at the “IDEAS for Design, knowledge Engineering Applied to living complex Systems” from 17<sup>th</sup> – 21<sup>st</sup> October 2011 in Paris, France.

The third part of the workshop has been organised as joint event to 3<sup>rd</sup> DREAM project annual meeting held at Hotel Tulip Inn Budapest Millennium in Budapest, Hungary (Table2 and Table3).

Event Type	Venue	Acronym	Country	Date / Duration of event
Scientific Workshop – 1 <sup>st</sup> part	University of Ljubljana – Biotechnical Faculty, Jamnikarjave 101, 1000 Ljubljana	UL - BF	Slovenia	17th May, 2011
Scientific Workshop – 2 <sup>nd</sup> part	Institut des Systèmes Complexes Paris Île-de-France, 57-59 rue Lhomond, F-75005, Paris, France	INRA	France	17 <sup>th</sup> – 21 <sup>st</sup> October 2011
Scientific Workshop – 3 <sup>rd</sup> part	Hotel Tulip Inn Budapest Millennium Üllői út 94-98 1089 Budapest	CCHU	Hungary	26 <sup>th</sup> April 2012

**Table 4: workshop venue**

Event Type	Duration	No. of breaks	Type of break	Attachment
Scientific Workshop – 1 <sup>st</sup>	From 9:00 until 13:00 / (0.5 day)	1	Coffee break (cca 20 minutes)	Program: <a href="#">SI</a> ; <a href="#">ENG</a>
				Invitation: <a href="#">SI</a> ; <a href="#">ENG</a>
Scientific Workshop – 2 <sup>nd</sup>	From 9:00 until 18:00 (Full day)	/	/	Program: FR
				Invitation: FR
Scientific Workshop – 3 <sup>rd</sup>	From 9:00 until 12:00 (0.5 day)	1	Coffee break (cca 10 minutes)	Program: <a href="#">HUN</a> ; <a href="#">ENG</a>
				Invitation: <a href="#">HUN</a> ; <a href="#">ENG</a> – announcement on DREAM food models website

**Table 5: workshop duration**

**b. The DREAM project partners at workshop**

The DREAM project partners that have taken active part at the first scientific workshop are: ADRIA Développement (2 people), UL-BF (2 people), Campden BRI (2 people), WUR (1 person). Representatives from UL-BF and Campden BRI were involved in both activities, lecturing and organisational (Table4a).

<b>Project Partner at 1<sup>st</sup> Sci. Workshop: Joint Worksop: DREAM &amp; TuBeSafe</b>	<b>Person</b>	<b>Role of the person</b>
ADRIA Développement	Thuault D	Lecturer
	Debroucker T.	Lecturer
UL-BF	Raspor P.	Lecturer, Organisation
	Baša L.	Organisation
Campden BRI	Sebök A.	Lecturer, Organisation
	Baár CS.	Lecturer
WUR	Kruse I.	Lecturer

**Table 6a: The DREAM project partners**

The DREAM project partners that have taken active part at the second scientific workshop are stated in the table 4b.

<b>Project Partner at 2<sup>nd</sup> Sci. Workshop: Person of DREAM involved (organization and lecturer): IDEAS for Design, knowledge Engineering Applied to living complex Systems</b>
Pierre-Henri Wuillemin (PHW, LIP6), Sophie Martin (SM, Cemagref-ISC), Isabelle Alvarez (IA, Cemagref), Cédric Baudrit (CB, INRA), Nathalie Perrot (NP, INRA Malices-ISC), Denis Flick (DF, AgroParisTech), Evelyne Lutton (EL, INRIA), Paul Bourgine (PB, ISC, Ecole Polytechnique), Romain Reuillon (RR, ISCFIF), Sébastien Gaucel (SG, INRA Malices), Julie Fouquier (JF, INRA).

**Table 7b: The DREAM project partners**

The DREAM project partners that have taken active part at the third scientific workshop are: INRA (1 person), WUR (1 person), IRTA (2 persons), ACTILIAT (1 person), CCRFA (1 person). Representatives from UL-BF and Campden BRI were involved in both activities, lecturing and organisational (Table4c).

<b>Project Partner at 3<sup>rd</sup> Sci. Workshop:</b> “Modelling tools for evaluation of the impact of microstructure on nutritional and sensory properties of foods” - Stakeholder’s workshop on the results of the DREAM FP7 project	<b>Person</b>	<b>Role of the person</b>
INRA	Axellos M.	Lecturer
WUR	M. Dekker	Lecturer
IRTA	C.Realini, J.D.Daudin	Lecturer
ACTILIAT	J. R. Kerjean	Lecturer
CCFRA	M. Whitworth	Lecturer

**Tabela 4c: The DREAM project partners**

### c. The DREAM project contribution

Contribution of DREAM project partners and project’s promotional material information can be seen in blow table:

<b>Contribution at 1<sup>st</sup> Sci. Workshop:</b> Joint Worksop: DREAM & TuBeSafe			
<b>Title</b>	<b>Author(s)</b>	<b>Presentation Type</b>	<b>Attachment</b>
Food safety and food modelling tools knowledge among MSC & PHD students – Screening (based on questionnaire)	Raspor P., Sebök A.	Lecture and knowledge screening	/
Development of a realistic food model describing the fate of glucosinolates during food processing	Kruse I., Dekker M., Verkerk R.	Lecture	<a href="#">WUR1.pdf</a>
Using models for valuation of the shelf-life of foods. Case study: Sym’Prevus Principles of validation of the technical content of modelling tools including 5 minutes contribution	Postollec F., El Jabri M., Sohier D., T De Broucker M., Thuault D.	Lecture	<a href="#">ADRIA1.pdf</a>
Introduction to the operation, needs and requirements of the industry to ensure applicability of the research results	Sebök A.	Lecture	<a href="#">CampdenBRI HU1.pdf</a>
General principles of validation and verification of practical applications of the modelling tools	Sebök A.	Lecture	<a href="#">CampdenBRI HU2.pdf</a>

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Design and modelling of thermal microbiological safety – sterilisation and pasteurisation	Sebók A.	Lecture	<a href="#">CampdenBRI HU3.pdf</a>
Case study: TRUEFOOD: A practical procedure for assessing the safety of traditional fermented air dried sausages	Sebók A.	Lecture	<a href="#">CampdenBRI HU4.pdf</a>
CIAA BSP Food Safety Action Principles of Food Safety Management Systems	Sebók A.	Lecture	<a href="#">CampdenBRI HU5.pdf</a>
Process management – A HACCP based approach	Sebók A.	Lecture	<a href="#">CampdenBRI HU7.pdf</a>
Practical food safety, quality and process management in the food industry	Baár CS.	Lecture	<a href="#">CampdenBRI HU6.pdf</a>
Design and development of REAListic food Models with well-characterised micro- and macro-structure and composition (DREAM)	All WPs	Poster	Available on the DREAM project website under Media centre – Posters/Flyers/Brochures: see DREAM Poster
<b>Promotional material</b>			
<b>Title</b>	<b>Number</b>	<b>Type</b>	
Design and development of REAListic food Models with well-characterised micro- and macro-structure and composition (DREAM)	54	Flyer	Available on the DREAM project website under Media centre – Posters/Flyers/Brochures: see DREAM Flyer

**Table 8a: The DREAM project contribution & Promotional material information**

<b>Contribution at 2<sup>nd</sup> Sci. Workshop:</b> IDEAS for Design, knowledge Engineering Applied to living complex Systems
Based on a demonstration on an application described, extract from the applications treated in DREAM, the attendants had four sessions of formation:
<ul style="list-style-type: none"> <li>1 dedicated to the building of deterministic models,</li> <li>2 dedicated to expert handling and formalisation and uncertainty management,</li> <li>3 dedicated to viability and robustness calculus,</li> <li>4 dedicated meta heuristics for decision help systems.</li> </ul>
Theoretical explanation of the tools followed an exercise on the computer; developments of some parts of these tools were included in the workshop as to have an understanding in depth of the tools manipulated.

**Table 9b: The DREAM project contribution & Promotional material information**



<b>Contribution at 3<sup>rd</sup> Sci. Workshop:</b> “Modelling tools for evaluation of the impact of microstructure on nutritional and sensory properties of foods” - Stakeholder’s workshop on the results of the DREAM FP7 project			
<b>Title</b>	<b>Author(s)</b>	<b>Presentation Type</b>	<b>Attachment</b>
Introduction of the DREAM project	M. Axelos	Lecture	<a href="#">INRA1.pdf</a>
PhytoVeg: a model for predicting the phytochemical content of vegetables	M. Dekker	Lecture	<a href="#">WUR1.pdf</a>
Two animal tissue models to test the impact of heating on sensory and nutritional quality	C.Realini, J.D.Daudin	Lecture	<a href="#">IRTA1.pdf</a>
Usefulness of the Actilait Cheese Models (Soft, Semi-Hard & Hard Cheese) for experimental platforms of Dairy Companies: reduction of the number of experiments due to the high reproducibility of cheese parameters	J. R. Kerjean	Lecture	<a href="#">ACTILIAT1.pdf</a>
Models for baked products with added fibre	M. Whitworth	Lecture	<a href="#">CCFRA1.pdf</a>

**Table 10c: The DREAM project contribution & Promotional material information**

#### d. Audience data

**1<sup>st</sup> part of scientific workshop:** Joint Worksop: DREAM & TuBeSafe

Total number of participant at the scientific workshop is 47 (lecturers not included). Majority of participants were from Slovenia (Table6)

<b>No.</b>	<b>Countries addressed</b>	<b>Training attended</b>	<b>Dissemination level</b>
47	Slovenia, China	Industry representatives, Food authorities, Food scientists, Students	Dissemination to the industry and food authorities Dissemination to the scientific community

**Table 11a: Audience data – workshop1.**

**2<sup>nd</sup> part of the scientific workshop:** IDEAS for Design, knowledge Engineering Applied to living complex Systems

Total number of participant at the scientific workshop is 25, all from France.

<b>No.</b>	<b>Countries addressed</b>	<b>Training attended</b>	<b>Dissemination level</b>
25	France	Food scientists, Students	Dissemination to the industry and food authorities Dissemination to the scientific community

**Table 12b: Audience data – workshop 2.**

**3<sup>rd</sup> part of the scientific workshop:**

Total number of participant at the scientific workshop is 32 (lecturers not included). 20 participants were DREAM project partners and 12 of them external participants all coming from Hungary.

No.	Countries addressed	Training attended	Dissemination level
32	Hungary	Industry representatives, Food authorities, Food scientists, Students	Dissemination to the industry and food authorities
			Dissemination to the scientific community

**Table 13c: Audience data – workshop 3.**

**e. The workshop material**

Each participant received:

- Folder with handouts of the lectures, DREAM flyer and the TuBeSafe project promotional material,
- Badge.
- OR a key USB prepared for each participant.

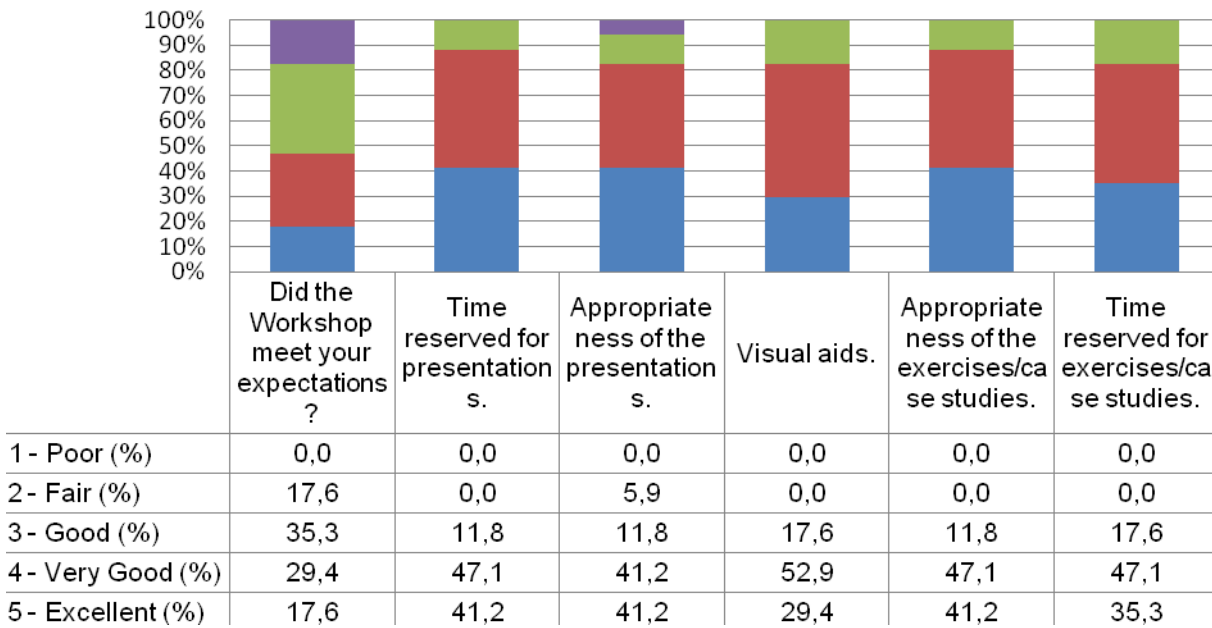
**f. Evaluation**

Evaluation of the scientific Worksop has been done in Slovenia.

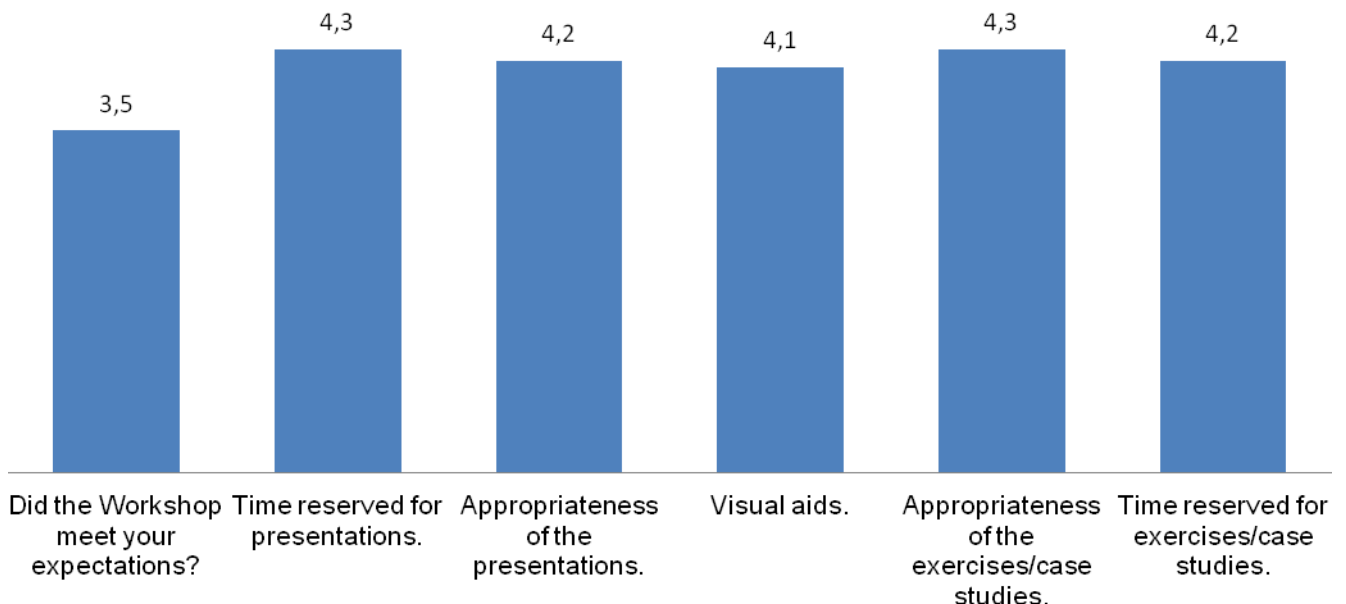
For evaluation of the workshop it has been used the “Participant’s Evaluation” questioner provided by CCHU (**Attachment:** Evaluation Q).

The participants have been asked to fill in the questioner at the end of the workshop.

**Percentage of responds per question/statement.**  
"Participant`s evaluation - Joint workshop 17th May 2011 Ljubljana"



**Average ( $\bar{x}$ ) of responds per question/statement.**  
"Participant`s evaluation - Joint workshop 17th May 2011 Ljubljana"



**g. Visual and other textual material**

Photographs of the Joint Workshop are available on the official DREAM project website under “Media Centre – Copyright-free photographs”:  
<http://dream.aaeuropae.org/MediaCentre/CopyrightfreePhotographs/JointWorkshopDREAMTUBESAFEATLANTIS/tabid/407/Default.aspx>

Photographs of the “Modelling tools for evaluation of the impact of microstructure on nutritional and sensory properties of foods” - Stakeholder’s workshop on the results of the DREAM FP7 project, Budapest, Hungary (26 April 2012) are available on the official DREAM project website under “Media Centre – Copyright-free photographs”:  
<http://dream.aaeuropae.org/tabid/614/Default.aspx>

Description of the Joint workshop is available on the DREAM project website under Events – Past Events:  
<http://dream.aaeuropae.org/Events/UpcomingEvents/JointWorkshopDREAMATLANTIS/tabid/380/Default.aspx>

Description of the “Modelling tools for evaluation of the impact of microstructure on nutritional and sensory properties of foods” - Stakeholder’s workshop on the results of the DREAM FP7 project is available on the DREAM project website under Events – Past Events:  
<http://dream.aaeuropae.org/Events/PastEvents/StakeholdersWorkshop/tabid/603/Default.aspx>

## **IV. Conclusion**

Training session for industrialists was carried out as set of events.

First event was a joint event with Tu\_Be\_Safe project (ATLANTIS) carried out on 17<sup>th</sup> May, 2011 held in Ljubljana, Slovenia at Biotechnical Faculty, University of Ljubljana.

The second event was carried as a one week workshop “IDEAS for Design, knowledge Engineering Applied to living complex Systems” held from 17<sup>th</sup> until 21<sup>st</sup> October 2011 in Paris, France.

The third event was carried out as Stakeholder’s workshop on the results of the DREAM FP7 project held on 26<sup>th</sup> April 2012 in Budapest, Hungary.

The lecturers at events provided participants with examples of methodological approaches based on experiences within the DREAM project and also related examples of good practices derived from other activities of the DREAM project partners.

The DREAM project scientific workshop was organised in collaboration with other projects and by that assured networking among different audience type (representatives from industry, science, food authorities and future young experts – students). The information about the DREAM project is also disseminated to consortium of the TuBeSafe project.

To conclude, the set of events has met its planned objectives. In these set of events is still planed one workshop. The exact date and place will be known soon.