

## D4.1: Cluster meetings

## Introduction

Work Package 4 is the focus for intervention with teachers and students to implement the toolkit of approaches designed in WP3. There will be feedback into WP3 through cluster meetings to develop and adapt the resources to meet local contexts as the project develops in year 2.

The two first deliverables of the Work Package 4 (D4.1 and D4.2) are presented in this document. The third deliverable (D4.3) is presented in a separated document. The two deliverables D4.1 and D4.2 concern the work done jointly by researchers and teachers in the perspective of design-based research.

D4.1) Cluster meetings: Local groups of schools and HEI's to share practice and progress monthly [month 25]

D4.2) School visits: Classroom visits for HEI partners and evaluator(s) monthly [month 25]

(DOW, Workplan table, page 11)

All partners have a cluster of schools to implement the formative assessment approaches developed in WP3 in sciences and/or mathematics. Local cluster meetings and school visits have been organised since the beginning of the WP4 (January 2015) and also before this date, due to teachers' engagement and schools initial contacts, in order to develop case studies that have taken place mainly between March and December 2015. Among partners, four are working with both sciences and mathematics teachers (NUIM, ENSL, HiST and DUE) while the other five are working with mathematics teachers.

Although cluster meetings with all the partners have not been scheduled monthly, however, meetings with teachers coming from several schools have been organised monthly (or even more frequently). Due to local contexts and in order to better plan the work with schools, the different meetings with teachers within each school have been arranged. During the WP4 period (from January 2015 to the end of January 2016), three hundred and seventy one (371) meetings between researchers and teachers have been organised by the FaSMEd teams. The objectives of these meetings as well as their agenda are given in the next pages.

All FaSMEd meetings between researchers and teachers are presented in two parts.

The first section "Overview of the meetings" is a summary of all of these meetings in a great table where we distinguish:

- Cluster meetings that correspond to meetings with all partners, teachers, headmasters, researchers,
- School visits that correspond to visits with one (or several) school(s) where teachers and researchers have worked on formative assessment lessons, the use of technology, and the preparation of observations,
- The line "Observations" corresponds to observations in class made by HEI.
- And finally, the line "Interviews and q-sort activity" corresponds to all meetings where students and/or teachers have been interviewed (using q-sorting or not).

The second part of this document details in one table for each partner the different Cluster meetings providing a more detailed description of the objectives and the content of each meeting. For School visits, Observations and Interviews, see D4.2)

## Overview of the meetings

### Overview of the meetings

**UNEW** : George Stephenson High School, St Thomas More and Park View School

**UNOTT** : De Ferrers Academy, Trinity School, Bagthorpe Primary School

**ENSL** : Lycée Parc Chabrières, collèges H.Barbusse, Fontreine, Elsa Triolet, H.d'Urfé, N.Conté, Ecoles Parmentier, S. de Beauvoir

	2014	01/2015	02/2015	03/2015	04/2015	05/2015	06/2015	07/2015
Cluster meetings	<b>UNEW</b> (22/11) <b>UNOTT</b> (26/11) <b>ENSL</b> (18/06, 10/12)			<b>UNEW</b> (24/03) <b>UNOTT</b> (26/03)				<b>UNEW</b> (6/07) <b>ENSL</b> (1/07)
School visits	<b>UNEW</b> (17/12) <b>UNOTT</b> (6/10, 23/10, 11/11, 18/11) <b>ENSL</b> (3/07, 18/09, 6/10, 16/10, 6-7/11, 12/11, 19/11, 26/11)	<b>UNEW</b> (6/01, 7/01, 20/01, 21/01, 28/01) <b>ENSL</b> (20/01, 28/01, 29/01, 30/01)	<b>UNEW</b> (9/02, 11/02, 24/02, 25/02) <b>UNOTT</b> (5/02, 10/02, 12/02) <b>ENSL</b> (2/02, 4/02, 10-11/02, 23/02)	<b>UNOTT</b> (19/03, 30/03, 31/03) <b>ENSL</b> (3-6/03, 30-31/03, 30/03)	<b>UNEW</b> (1/04, 23/04) <b>UNOTT</b> (2/04) <b>ENSL</b> (1/04, 2/04, 4/04, 7/04, 10/04, 20/04)	<b>UNOTT</b> (21/05)	<b>UNEW</b> (9/06, 11/06, 19/06) <b>UNOTT</b> (3/06, 4/06, 16/06)	
Observations	<b>ENSL</b> (10/12)	<b>ENSL</b> (6/01)	<b>UNOTT</b> (23/02, 24/02, 25/02, 26/02) <b>ENSL</b> (2/02, 10-11/02)	<b>UNEW</b> (2/03, 4/03, 10/03, 11/03, 17/03) <b>UNOTT</b> (5/03, 11/03, 12/03) <b>ENSL</b> (3-6/03, 16/03)	<b>ENSL</b> (13-15/04)	<b>UNEW</b> (6/06) <b>UNOTT</b> (6/05, 7/05, 12/05, 13/05, 14/05, 15/05)	<b>UNEW</b> (17/06, 22/06) <b>UNOTT</b> (3/06, 15/06, 16/06, 18/06, 25/06, 26/06)	<b>UNOTT</b> (15/07)
Interviews and q-sort activity	<b>ENSL</b> (4/11)	<b>ENSL</b> (6/01, 22/01, 28/01)	<b>ENSL</b> (11/02, 25/02)		<b>ENSL</b> (14/04)	<b>ENSL</b> (4/05, 5/05, 26/05)	<b>UNEW</b> (22/06) <b>ENSL</b> (11/06)	<b>UNEW</b> (8/07, 13/07 : 15/07, 16/07) <b>UNOTT</b> (7/07, 8/07, 15/07)

**UNEW** : George Stephenson High School, St Thomas More and Park View School

**UNOTT** : De Ferrers Academy, Trinity School, Bagthorpe Primary School

## Overview of the meetings

**ENSL** : Lycée Parc Chabrières, collèges H.Barbusse, Fontreyne, Elsa Triolet, H.d'Urfé, N.Conté, Ecoles Parmentier, S. de Beauvoir

	09/2015	10/2015	11/2015	12/2015	01/2016
Cluster meetings		<b>ENSL</b> (2/10, 5/10)			
School visits	<b>UNEW</b> (30/09)	<b>ENSL</b> (12/10, 13/10-16/10) <b>UNEW</b> (14/10, 22/10)	<b>UNEW</b> (26/10)	<b>UNEW</b> (2/12, 10/12)	<b>UNEW</b> (22/01)
Observations		<b>ENSL</b> (13/10-16/10)	<b>ENSL</b> (5/11, 26/11)	<b>ENSL</b> (2/12, 10/12)	
Interviews and q-sort activity		<b>ENSL</b> (16/10)	<b>ENSL</b> (2/11)		

## Overview of the meetings

**NUIM** : Colaiste Pobail Setanta, Maynooth Community College, Oaklands Community College

**UNITO** : Istituto Comprensivo di Vinovo; Circolo Salgari; Istituto Comprensivo di Carcare

**AIMSSEC** : Fairmount School, Fish Hoek High School, Hyde Park College, Manzomthombo Senior School, Plumstead High School, Rustenburg Girls' High School, South Peninsula High School, Vista Nova Secondary School, Vredendal TVET College, Vuyiseka Secondary School, West Lake TVET College

	2014	01/2015	02/2015	03/2015	04/2015	05/2015	06/2015	07/2015
Cluster meetings	<b>NUIM</b> (20/11) <b>UNITO</b> (27/06)	<b>NUIM</b> (26/01)		<b>NUIM</b> (10/03) <b>AIMSSEC</b> (26/03)	<b>NUIM</b> (23/04)		<b>UNITO</b> (23/06) <b>AIMSSEC</b> (18/06)	
School visits	<b>NUIM</b> (5/11, 6/11) <b>UNITO</b> (10/09, 8/10, 24/10, 7/11, 13/11, 19/11, 4/12, 10/12, 12/12, 16/12) <b>AIMSSEC</b> (2/07, 8/07, 23/08, 6/09, 30/10, 18/11,	<b>NUIM</b> (12/01, 13/01, 14/01) <b>UNITO</b> (14/01)	<b>UNITO</b> (11/02)	<b>UNITO</b> (9/03, 30/03)	<b>UNITO</b> (10/04, 15/04, 16/04, 17/04, 20/04, 21/04, 22/04)			
Observations			<b>NUIM</b> (23/02, 25/02, 26/02)	<b>NUIM</b> (3/03, 4/03, 5/03, 20/03, 25/03, 26/03)	<b>UNITO</b> (21/04, 22/04, 23/04)	<b>NUIM</b> (13/05, 18/05, 19/05, 20/05) <b>UNITO</b> (4/05, 7/05, 8/05, 11-15/05, 18-19/05, 20-22/05, 25-29/05)		
Interviews and q-sort activity							<b>UNITO</b> (3/06)	

## Overview of the meetings

**NUIM** : Colaiste Pobail Setanta, Maynooth Community College, Oaklands Community College

**UNITO** : Istituto Comprensivo di Vinovo; Circolo Salgari; Istituto Comprensivo di Carcare

**AIMSSEC** : Fairmount School, Fish Hoek High School, Hyde Park College, Manzomthombo Senior School, Plumstead High School, Rustenburg Girls' High School, South Peninsula High School, Vista Nova Secondary School, Vredendal TVET College, Vuyiseka Secondary School, West Lake TVET College

	08/2015	09/2015	10/2015	11/2015	12/2015
Cluster meetings	<b>AIMSSEC</b> (18/08)	<b>UNITO</b> (22/09, 29/09)	<b>AIMSSEC</b> (15/10)		
School visits	<b>AIMSSEC</b> (20/08, 26/08, 28/08)	<b>AIMSSEC</b> (7/09)	<b>AIMSSEC</b> (12/10, 17/10, 19/10, 21/10, 22/10)	<b>NUIM</b> (13/11) <b>AIMSSEC</b> (19/11, 30/11)	<b>AIMSSEC</b> (1/12)
Observations		<b>UNITO</b> (28/09, 29/09)	<b>NUIM</b> (13/10, 14/10, 16/10) <b>UNITO</b> (1/10, 5/10, 6/10, 12/10, 13/10, 19/10, 20/10, 21/10, 22/10, 26/10, 27/10, 28/10)	<b>UNITO</b> (3/11, 4/11, 5/11, 9/11, 10/11, 11/11, 13/11, 16/11, 20/11, 23/11, 24/11, 26/11, 30/11)	<b>NUIM</b> (8/12) <b>UNITO</b> (3/12, 9/12, 10/12, 11/12, 15/12, 16/12)
Interviews and q-sort activity			<b>NUIM</b> (20/10)	<b>AIMSSEC</b> (20/11, 27/11)	<b>UNITO</b> (1/12, 17/12)

## Overview of the meetings

**UU** : Prins Florischool, Roald Dahl school, Henri Dunantschool, Anne Frankschool

**DUE** : Gesamtschule Bockmühle, Sophie-Scholl-Gesamtschule, Schönstätter Marienschule, Clara Schumann Gymnasium

**HIST** : Birralee. Saupstad, Strindheim

	2014	01/2015	02/2015	03/2015	04/2015	05/2015	06/2015	07/2015
Cluster meetings	<b>DUE</b> (20/11) <b>HIST</b> (1/04)	<b>DUE</b> (13/01)	<b>HIST</b> (3/02, 24/02)		<b>HIST</b> (16/04, 21/04)	<b>UDE</b> (19/05)		
School visits	<b>UU</b> (10/10, 17/10, 3/12, 10/12) <b>DUE</b> (14/08) <b>HIST</b> (27/10, 4/12)		<b>DUE</b> (19/02) <b>HIST</b> (27/03)	<b>DUE</b> (25/03)	<b>UU</b> (9/04, 16/04) <b>DUE</b> ((16/04) <b>HIST</b> (13/04	<b>UU</b> (19/05) <b>HIST</b> (12/05, 22/05	<b>UU</b> (11/06, 18/06)	
Observations			<b>HIST</b> (26/03			<b>HIST</b> (12/05, 22/05	<b>UU</b> (23/06, 30/06)	
Interviews and q-sort activity						<b>HIST</b> (12/05, 21/05, 22/05, 28/05)	<b>UU</b> (30/06) <b>HIST</b> (18/06)	<b>DUE</b> (20/07)

## Overview of the meetings

**UU** : Prins Florischool, Roald Dahl school, Henri Dunantschool, Anne Frankschool, De Horizon (Amstelveen), De Poolster (Nieuw-Roden), De Wierde (Winsum), De Postiljon (Soesterberg), De Tweesprong (Maarssen), Josefschool (Culemborg), ASV Daltonschoon (Amersfoort), Vreewijkschool (Rotterdam), Kon. Julianaschool (Heerjansdam), 't Palet Holy (Vlaardingen), De Meerpaal (Zoetermeer), Het Kompas (Stellendam), Paulus (Castricum), De Windroos (Lelystad), Kabas (Franeker), De Driestam (Eindhoven), 't Hout (Helmond), De Touwladder (St Michielsgestel), Antonius (Heusden), D'n Heiakker (Deurne), Irisschool (Terneuzen), De Rank (Toldijk), Pius X (Haaksbergen), 't Bijenveld (Leuth), Walien (Winterswijk Huppel), Alfonsusschool (Enschede), De Poolster (Nieuw-Roden)

**DUE** : Gesamtschule Bockmühle, Sophie-Scholl-Gesamtschule, Schönstätter Marienschule, Clara Schumann Gymnasium

**HIST** : Birralee. Saupstad, Strindheim

	08/2015	09/2015	10/2015	11/2015	12/2015
Cluster meetings		<b>HIST</b> (17/09)			
School visits		<b>UU</b> (2/09, 9/09, 10/09, 22/09, 30/09)	<b>UU</b> (1/10, 27/10, 28/10)	<b>UU</b> (4/11, 5/11, 1/11)	
Observations	<b>DUE</b> (31/08)		<b>HIST</b> (15/10)	<b>DUE</b> (27/11) <b>HIST</b> (19/11)	<b>UU</b> (1/12, 8/12) <b>DUE</b> (21/12)
Interviews and q-sort activity					



## UNEW team's cluster meetings

### UNEW

#### **Date** **22nd November 2014**

**Programme**  
 Schools Cluster meeting:  
 10 – 10:30 Introductions – outline of day and catch up on progress with Fasmed.  
 10:30 – 12 Formative assessment – shared meaning and experience  
 12 – 1pm Working on materials  
 1pm - 2 Lunch  
 2 – 3:30 Using Classflow  
 3:30 – 4 Planning next steps

**Schools** George Stephenson High School, St Thomas More and Park View School

#### **Date** **24th March 2015**

**Programme**  
 Schools Cluster Meeting - Agenda 4pm - Welcome and introductions  
 4.10pm - Small group sharing activity on 'Distance Time Graphs'  
 4.30pm - Feedback to whole group  
 4.40pm Schools present reflections on chosen second activity (Candy Cartons/Security Cameras/Gold Rush) followed by whole group discussion  
 5.10pm FaSMEd and wider applicability in mathematics teaching  
 5.20pm Next steps  
 5.30pm Finish

**Schools** George Stephenson High School, St Thomas More and Park View School

#### **Date** **6th July 2015**

**Programme**  
 Schools Cluster Meeting - Agenda:  
 4pm Welcome and announcements  
 4.10pm Activity 1: Where (in your FaSMEd lessons) has formative assessment worked well? (Examples to be shared in small groups, main points with whole group).  
 4.30pm Activity 2: Where (in your FaSMEd lessons) has the technology worked well? (Examples to be shared in small groups, main points with whole group).  
 4.50pm Comfort break  
 5pm Activity 3: How could the formative assessment processes and/or technology be improved? (Examples to be shared in small groups, main points with whole group).  
 5.15pm Activity 4: What impact, if any, has FaSMEd had on your other teaching? What will you take forward, if anything, next year? (Examples to be shared in small groups, main points shared with whole group).  
 5.30pm Finish

**Schools** St Thomas More and George Stephenson High School

## UNOTT

<b>Date</b>	<b>26th November 2014</b>
Programme	Cluster meeting: 16:00 Introductions to the UoN team and schools' representatives. 16:00 - 17:30 Presentations and discussion on the background to the project, the aims and objectives, the meaning of formative assessment, the research focus and the toolkit. 17:30 - 17:45 Discussion about ways of working, practical arrangements and next steps. 17:45 - 18:00 Discussion in school groups about issues and next steps.
Schools	All partners

  

<b>Date</b>	<b>26th March 2015</b>
Programme	Cluster meeting. 15.45 Introductions 16:00 presentations by each school providing feedback on the lessons they had planned and delivered in phase one, the technology they had used and what they had learned. 17:00 discussion groups about the research questions and the impact of the technology 17:30 discussion about alternative approaches and the focus for the next phase of lessons.
Schools	All partners

## ENSL

<b>Date</b>	<b>18th June 2014</b>
Programme	<p>14h-15h : Introduction:</p> <ul style="list-style-type: none"> <li>- the FaSMEd project and the first works carried out at European level since January,</li> <li>- the teams and the classes involved in the project,</li> <li>- the institutional frame.</li> </ul> <p>15h-16h : Organisation of the work during the school year 2014-2015</p> <ul style="list-style-type: none"> <li>- methodology of data collection,</li> <li>- internal communication (among the teams, with the IFÉ)</li> </ul> <p>16h-17h : Formative assessment and the "toolkit"</p> <p>working groups</p> <p>17h-18h :</p> <ul style="list-style-type: none"> <li>- report of the work,</li> <li>- first draft of the schedule for the school year 2014-2015,</li> <li>- conclusion.</li> </ul>
Schools	All partners
<b>Date</b>	<b>10th December 2014</b>
Programme	<p>14h-14h30 Introduction: report on European partners meeting, introduction of Monica Panero to the team</p> <p>14h30-15h10: Teachers' presentation of the first works done in the different schools: 7-8 min each for presenting plans or first realisations (at most 3 or 4 slides)</p> <p>15h10-16h00: Collective discussion about</p> <ul style="list-style-type: none"> <li>- the formative assessment</li> <li>- the role of technology</li> <li>- dealing with low achievers.</li> </ul> <p>16h00-17h00: the future teaching experiments:</p> <ul style="list-style-type: none"> <li>- context elements to be clarified</li> <li>- organisation</li> <li>- elements to integrate in the toolkit</li> <li>- sharing of experiences</li> </ul>
Schools	All partners
<b>Date</b>	<b>1st July, 2015</b>
Programme	<p>Statement and prospects for the project</p> <ul style="list-style-type: none"> <li>- the different experimentations in classroom</li> <li>- position relatively to the theoretical framework</li> <li>- web sites: toolkit and French website</li> <li>- organisation of experimentation for the first trimester 2015-2016</li> </ul>
Schools	All partners
<b>Date</b>	<b>2nd October 2015</b>

## ENSL team's cluster meetings

Programme	Mini Cluster meeting with teachers of primary schools Preparation of observations in the class
Schools	Saint-Fons
<b>Date</b>	<b>5th October 2015</b>
Programme	Mini cluster meeting all teachers of Vaulx en Velin - preparation of next observation - re-teaching Time-distance - dissemination (Website)
Schools	Vaulx en Velin

## NUIM team's cluster meetings

### NUIM

<b>Date</b>	<b>20th November 2014</b>
Programme	10.00-10.30 Introduction to the FaSMEd Team 10.30-12.30 Toolkit 1: Building on Prior Knowledge and Feedback Experiences, Difficulties and Principles of Formative Assessment Analysing student responses to problem solving tasks Effects of Feedback Identifying Misconceptions Planning a lesson with Formative Assessment 12.30-1.30: Lunch in Pugin Hall
Schools	2.15-3.00: Introduction to 'schoolology' for teachers All partners
<b>Date</b>	<b>26th January 2015</b>
Programme	Professional Development Session 2. 10.00: Activity 1 group feedback 10.45: Schoolology Update 11.00: Activity 2 Identifying and Responding to Conceptual Difficulties 13.00: Lunch 14.00: Formative Assessment and the role of technology 14.45: Next Steps
Schools	All Partners
<b>Date</b>	<b>10th March 2015</b>
Programme	Professional Development Session 3. 10.00: Activity 2 Group Feedback 10.30: Tour of Colaiste Pobail Setanta 11.00: Activity 3 Improving Learning through Questioning 12.30: Lunch 13.15: Activity 4 Increasing Student Collaboration 14.45: Next Steps
Schools	All Partners
<b>Date</b>	<b>23rd April 2015</b>
Programme	Professional Development Session 4 9.30: Group Feedback on previous activities 10.30: Activity 5 Students as Assessors 12.00: Next Steps
Schools	All Partners

## UNITO

<b>Date</b>	<b>27th June 2014 (2 hours)</b>
Programme	First meeting with the teachers and the headmaster and Presentation of the FaSMEd Project (aims and methodology of the project)
Schools	Istituto Comprensivo di Vinovo (To)
<b>Date</b>	<b>23rd June 2015 (3 hours)</b>
Programme	<ul style="list-style-type: none"> <li>- Brief excursus of the activities carried out by the different teachers in their classes</li> <li>- Small group activity on the analysis of the worksheets used during the teaching experiments and discussion</li> <li>- The use of digital technologies to support formative assessment: analysis of some videos from the teaching experiments</li> <li>- Planning of the future steps of the experimentations</li> </ul>
Schools	Istituto Comprensivo di Vinovo (TO) & Circolo SALGARI (Torino)
<b>Date</b>	<b>15th September 2015 (3 hours)</b>
Programme	CLUSTER MEETING: <ul style="list-style-type: none"> <li>- Sharing of the results arisen from the reflections developed during the semi-cluster meeting: about the activities in the classes (focus on the worksheets) and about the support provided by the technology during the activities;</li> <li>- Presentation of the FaSMEd three-dimensional framework as a theoretical tool that could support the analysis of the role played by technology during FA processes;</li> <li>- Analysis of a class discussion, developed during the first phase of the teaching experiments, through the lenses of the FaSMEd three-dimensional framework;</li> <li>- Presentation of the motion sensor as a tool to introduce time-distance graphs;</li> <li>- Planning of the second phase of the teaching experiments.</li> </ul>
Schools	Istituto Comprensivo di Vinovo (TO), Circolo SALGARI (Torino) & Istituto Comprensivo di Carcare (SV)
<b>Date</b>	<b>22nd September 2015 (2 hours)</b>
Programme	SEMI-CLUSTER MEETING: <p>Analysis of the re-design of some of the activities, carried out starting from the a-posteriori reflections developed after the first phase of the teaching experiments.</p>
Schools	Istituto Comprensivo di Vinovo (TO) & Circolo SALGARI (Torino)

## AIMSSEC

<b>Date</b>	<b>26th March 2015</b>
Programme	FIRST CLUSTER MEETING 1. Introduction of schools and teachers 2. Report on what has been done in first term 3. Issues arising from first term 4. Next steps 5. Discussion
Schools	Fairmount, Fish Hoek, Hyde Park, Manzomthombo, Plumstead, Rustenberg, South Peninsula, Vista Nova, Vuyiseka, West Lake
<b>Date</b>	<b>18th June 2015</b>
Programme	SECOND CLUSTER MEETING 1. Welcome and outline of plan for the meeting 2. Cameo slot: Greg Hawtrey (Fish Hoek High School) 3. Overview of second term's activities (video montage) 4. Issues arising and next steps 5. Discussion
Schools	Fairmount, Fish Hoek, Hyde Park, Manzomthombo, Plumstead, Rustenberg, South Peninsula, Vista Nova, Vuyiseka, West Lake
<b>Date</b>	<b>15th October 2015</b>
Programme	THIRD CLUSTER MEETING 1. Welcome and introduction 2. Overview of different lessons taught in third term 3. Video 4. Revision lesson (introduced by Regis) 5. Questionnaires 6. Issues arising from third term <ul style="list-style-type: none"> <li>- Use of big cards for modeling (Jane)</li> <li>- Use of big cards to end off (Severino)</li> <li>- Learners' response (Berenice)</li> <li>- Mini whiteboards (Regis)</li> </ul> 7. Next steps <ul style="list-style-type: none"> <li>- Consortium meeting</li> <li>- The FaSMEd movie</li> <li>- Continued relationship</li> </ul>
Schools	Fairmount, Fish Hoek, Hyde Park, South Peninsula, Vista Nova, West Lake

## AIMSSEC team's cluster meetings

<b>Date</b>	<b>12nd November 2015</b>
Programme	CLUSTER MEETING IN VREDENDAL 1. Welcome and introduction 2. Video 3. Discussion 4. Questionnaire 5. Next steps
Schools	Vredendal College



## UU team's cluster meetings

### UU

The work has been organised through schools' visits without large meetings with all schools (See D4.2).

## DUE team's cluster meetings and school visits

### DUE

<b>Date</b>	<b>20th November 2014</b>
Programme	Organisation of School year and visits Input on formative assessment and formative assessment in FaSMEd Workshop on reviewing classroom materials Discussion about technology, school needs, expectations of the project, experiences with formative assessment.
Schools	all partners
<b>Date</b>	<b>13th January 2015</b>
Programme	Introduction on the use of the self-assessment materials in the classroom Discussion about student self-assessment, use of the maths self-assessment materials Discussion about the use of the biology self-assessment materials during experiments
Schools	all partners
<b>Date</b>	<b>19th May 2015</b>
Programme	Planning of Case Studies Discussion of which classes might be suitable for cases in the next school year, planning of further activities and trials
Schools	All Partners

## HiST

<b>Date</b>	<b>1st April 2014</b>
Programme	Presentation of the EU Fasmed project at meeting with rectors, teachers and representatives from the local school authorities at Trondheim kommune
Schools	Saupstad, Hoeggen, Sunnland, Flatåsen
<b>Date</b>	<b>3rd February 2015</b>
Programme	Cluster meeting. Introduction to Fasmed
Schools	Birralee. Saupstad, Strindheim
<b>Date</b>	<b>24th February 2015</b>
Programme	Cluster meeting. toolkit. Graphs. lesson study planning.
Schools	Birralee. Saupstad, Strindheim
<b>Date</b>	<b>16th April 2015</b>
Programme	Cluster meeting. Design/redesign.
Schools	Birralee. Saupstad, Strindheim
<b>Date</b>	<b>21st April 2015</b>
Programme	Cluster meeting. Use of technology, graphs, lower achievers.
Schools	Birralee. Saupstad, Strindheim
<b>Date</b>	<b>21st May 2015</b>
Programme	Cluster meeting/lesson study observation. Redesigned lesson from Birralee to Strindheim (7th grade).
Schools	Strindheim, Birralee
<b>Date</b>	<b>17th September 2015</b>
Programme	Cluster meeting. working with graph software: Desmos. Walking-a-graph
Schools	Strindheim, Birralee