

The background of the slide is a grayscale photograph of a sharp, rocky mountain peak, likely a glacier peak, with some snow patches at its base. The peak is centered and dominates the upper half of the image.

MSE Redesign I Phase 2

1. Consolidation meeting C-PCOs

Zürich, 22.03.2019

1. Aims

- Overview of selected TSM-, FTP-, CM modules
- Consolidation of selected central Theory Modules
- Taking note of new modules / modules to be adapted
- Clarification tasks C-PCOs for the second loop
- Clarification open questions

1. Agenda

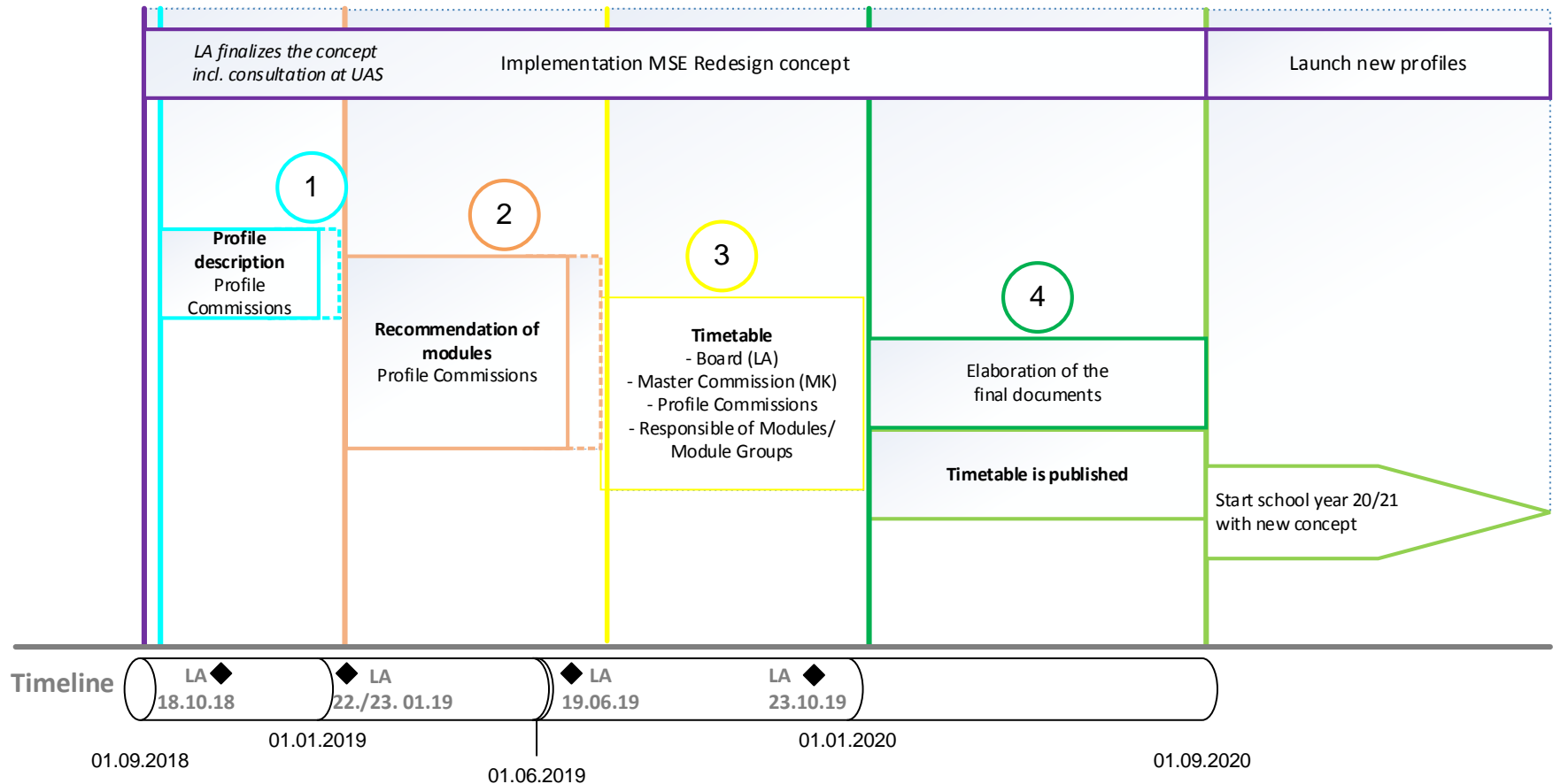
1. Welcome and introduction
2. Orientation
3. Compilation central Theory Modules
 - TSM modules
 - FTP modules
 - CM modules

Short break

4. Conclusions
5. Clarification of questions
6. Profile language: interim results
7. Further action
8. Varia MSE-Redesign
9. AOB, Thanks

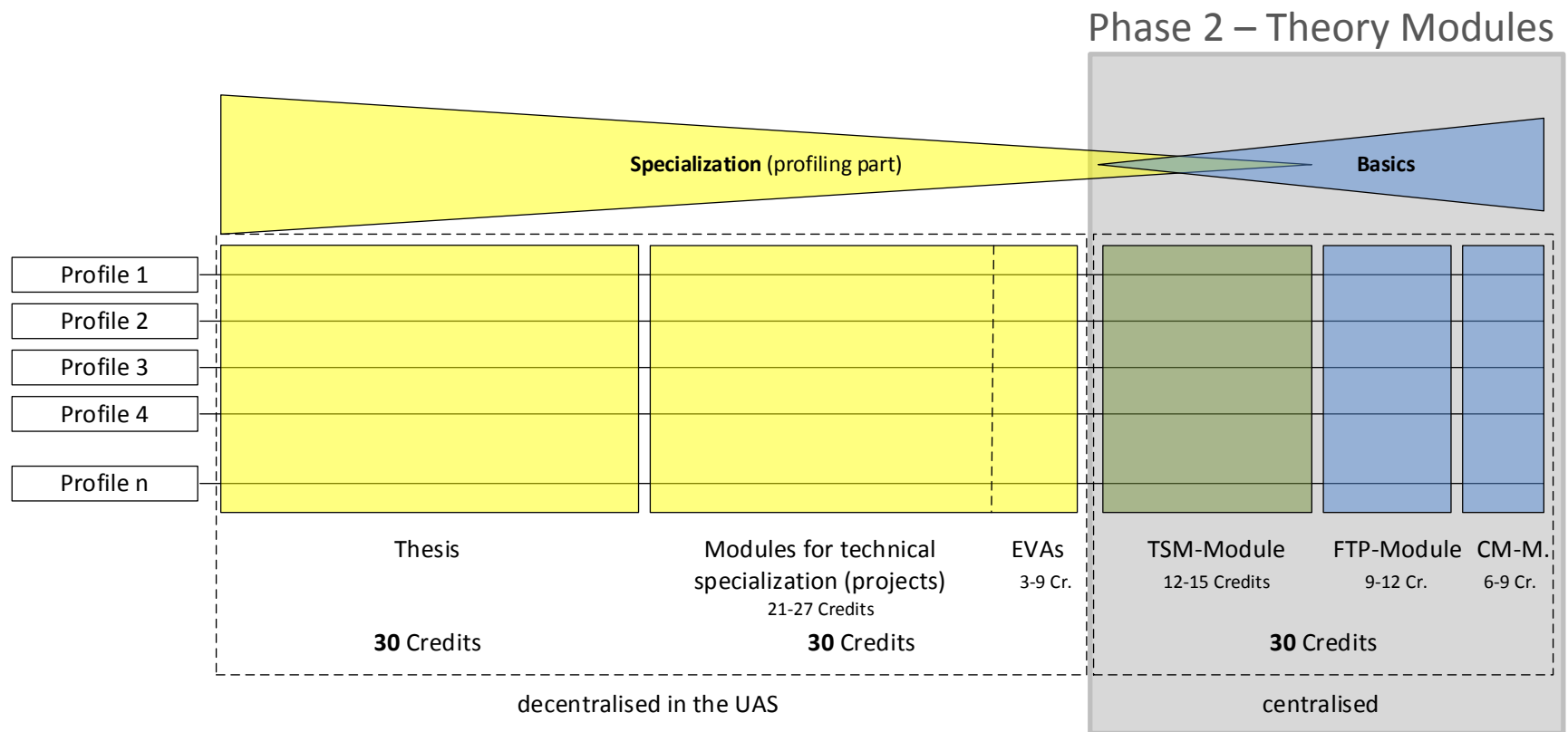
2. Orientation

■ Implementation process: 4 phases



2. Orientation

- Phase 1: Profile Description covers centralised & decentralised part of MSE
- Phase 2: Compilation Theory Modules covers centralised part
















2. Orientation – LA

■ Board (LA) met Friday 15.03.2019

■ Overview current working status

Rating of C-PCOs in the context of telephone feedback CW10

Name of the Profile	Short code	CW10
Business Engineering	BE	
Civil Engineering	CE	
Computer Science	CS	
Data Science	DS	
Electrical Engineering	EIEn	
Energy and Environment	EnEn	
Mechanical Engineering	ME	
Mechatronics and Automation	MA	
Medical Engineering	Med	?
Small Profiles		
Aviation	Avi	
Building Technologies	BT	
Geomatics	Geo	
Photonics	Pho	
Raumentwicklung und Landschaftsarchitektur	ReLa	

2. Orientation – Decisions LA

- The maximum number of Theory Modules (TSM per profile) is confirmed by the LA (approval January 2019).
- Requests for more TSM-modules are not possible
- The LA-members committed not to offer more TSM-Modules than approved by the board (also for Small Profiles)

2. Orientation – Decisions LA

■ Number of TSM Module per Profile and (central) location

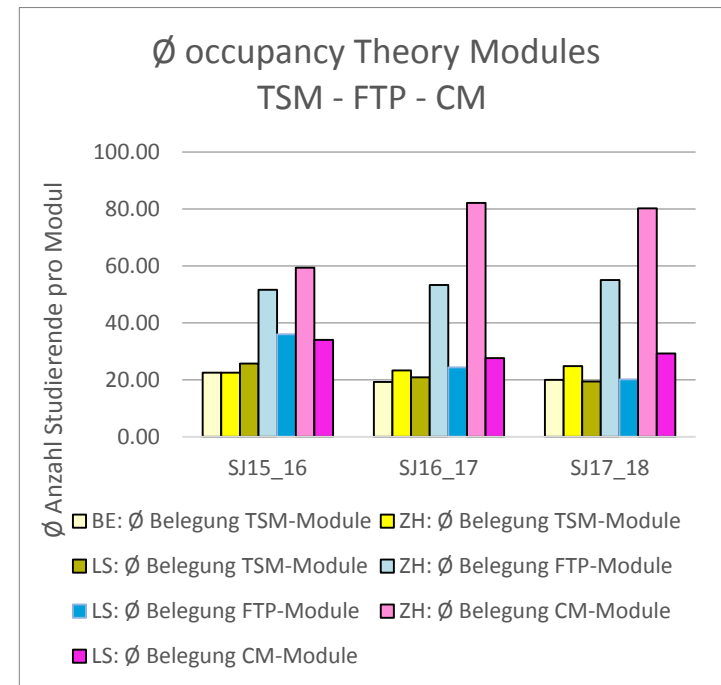
Profile	Actual TSM Module	NEW TSM Module	Bern	Lausanne	Lugano	Zurich	tbd
Business Engineering (BE)	10	6	0	4 SJ22/23	0	6	
Civil Engineering (CE)	5	5	0	4	0	5	
Computer Science (CS)	10	7	0	7	4	7	
Data Science (DS)	5	6	0	4	0	6	
Electrical Engineering (EIE) *	5	7	0	4	0	7	
Energy & Environment (EnE) */**	12	8	0	4	0	8	
Mechanical Engineering (ME) *	5	7	0	4	0	7	
Mechatronics & Automation (MA)	5	5	0	4	0	5	
Medical Engineering (Med)	0	4	0	4	0	4	
Aviation (Avi) seit 22.01.2019	0	4	0				4
Building Technologies (BT)	0	4	0				4
Geomatics (Geo)	5	4	0				4
Photonics (Pho) seit 18.10.2018	0	4	0				4
Raumentwicklung & Landschaftsarchitektur (ReLa)	5	4	0				4

➤ Maximum 73 Theory Modules

* EnE can share 1 module each with EIE and ME; if one module is shared, then 1 (EIE/ME) or 2 (EnE) more modules may be offered.
 ** 2 modules have to address the topic «environment»

2. Orientation – Decisions LA

- TSM Modules: slides before
- FTP - Modules: **19 Modules**
 - status quo: 16 Module (3 not held)
 - same modules for all locations
 - needs-oriented (Input PCO)
 - recommendation of at least 3 Profiles
- CM - Modules: **10 Modules**
 - status quo: 12 Module
 - same modules for all locations
 - needs-oriented (Input PCO)
 - suitable for many profiles



2. Orientation – Decisions LA

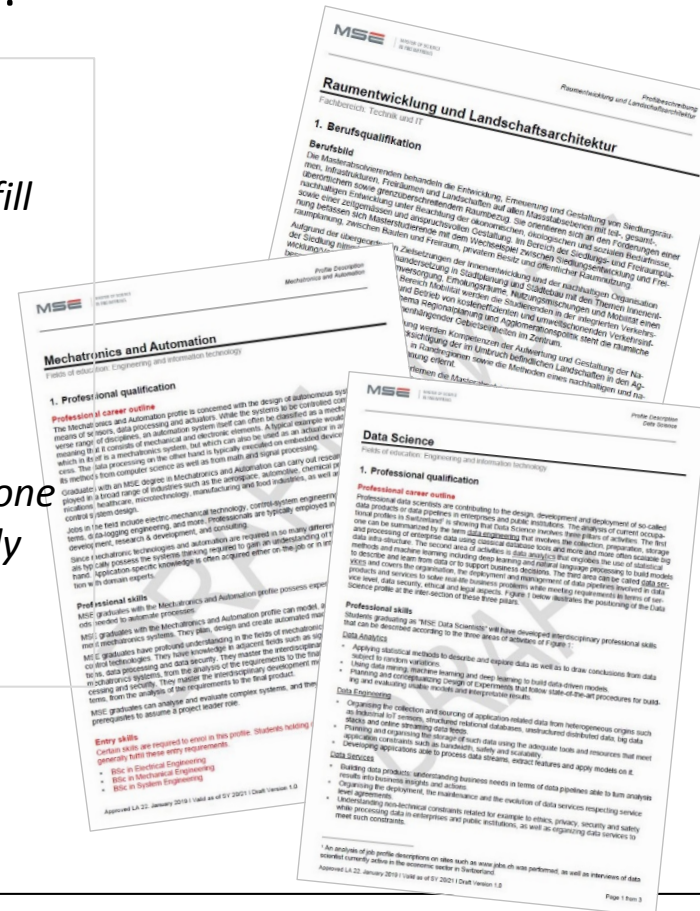
- Revision of Profile Descriptions is approved
=> conditions of admission and profile content is separated
=> Profile Description will be adapted as follows:

Entry skills

Specific skills are required to enrol in this profile. Students holding one of the following Bachelor degrees generally fulfill these entry requirements.

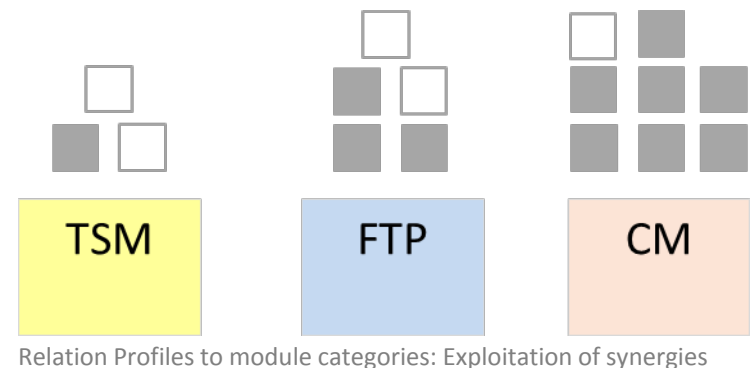
- BSc in
- BSc in

The assessment of the entry skills is part of the enrolment process of the respective school. Students who do not hold one of the above mentioned Bachelor degrees will be individually assessed for their suitability by the respective University of Applied Sciences.



3. Compilation central Theory Modules – Task phase 2

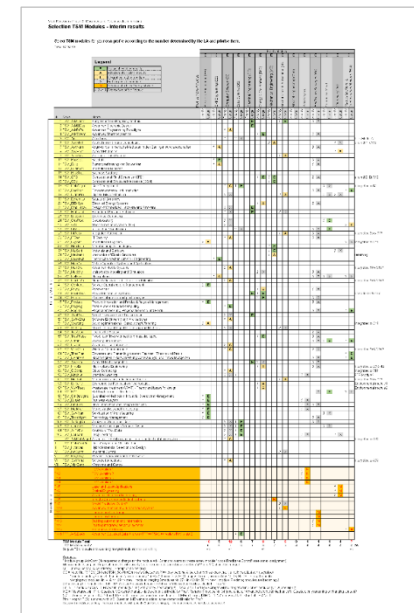
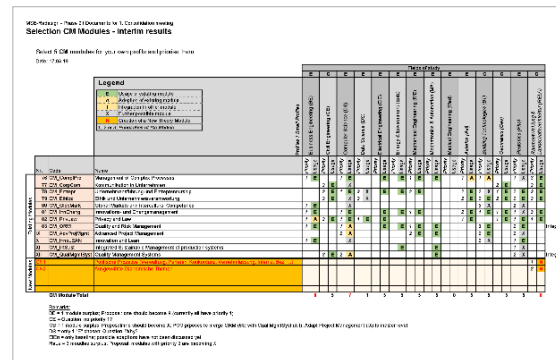
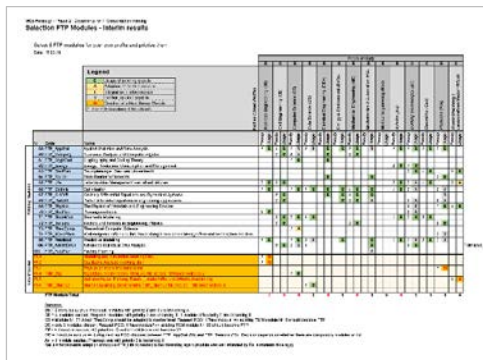
- Task: Definition of Theory Modules (TSM, FTP, CM) for own Profile
 - Compilation of modules to be offered for one's own Profile
 - Basis => current offer
 - Triage: retain, adapt, new
 - Check exploitation of synergies with other Profiles
 - TSM: technical specialisation; one or few Profiles
 - FTP: theoretical knowledge; min. for 3 Profiles
 - CM: additional competencies; large number of Profile
 - Formulation of the module specifications (new/adaption)
 - see template



3. Compilation central Theory Modules

- Current situation:

- Almost all PCOs have submitted their compilation of modules
Pending: feedback PCO Med
- All feedbacks have been implemented in one file (s. supplements)
- Some specifications for new/adaptable modules are available (s. supplements)



3. Compilation central Theory Modules

■ Interim results - preliminary conclusions

- A new category is necessary: «I» for integrated modules
- «Balancing the nominations»: when to use A, I, N?
- New modules needs to be explained by C-PCOs
- Modules to be adapted needs to be explained by C-PCOs
- Priorities are necessary
- «Rules» for CM-Modules are needed
- A further discussion of FTP Modules for the field of study «Construction & Planning» is needed
- Well-attended FTP Modules should be considered

3. Compilation central Theory Modules

- A new category is necessary: «I» for integrated modules & «Balancing the nominations»: when to use A, I, N?
 - Use «I» for modules, who you want (partly) integrate in another module
=> module does not exist anymore (each «I» leads to an «A» or «N»)
 - Use «A» for modules, who you want adapt the content; most of the content remains the same; e.g. master level, put a focus on a specific theme, ...
=> module still exists with the same module code
 - Use «N» for new modules: modules with an absolutely new content and modules who have been merged => a new module code / module name is necessary
- Indicators for «N»
 - Necessity of a new module group (remember: max. 2 lecturers/module/location)
 - Necessity of a new module name / module code
 - More than 50% of the module content will change thematically

3. Compilation central Theory Modules

- New modules needs to be explained by C-PCOs & Modules to be adapted needs to be explained by C-PCOs
 - 1 Consolidation meeting, Agenda item 3.1 – 3.3
- Priorities are necessary
 - 1 Consolidation meeting, Agenda item 4 «Conclusions»
- «Rules» for CM-Modules are needed
 - At least 3 profiles choose the same module
- FTP-Modules in the field of study «Construction & Planning»
 - Possible solutions should be discussed
- Consideration of well-attended FTP-Modules
 - Reference value: Ø number of students in central Theory Modules (> 40 students)

3. Compilation central Theory Modules

- Explanations / comments respective C-PCOs
 - **Aim:** taking note of the PCOs thoughts and considerations
 - **Time-slot:** 3-5 minutes / PCO / module category
 - **Procedure:** 1. TSM => 2. FTP => 3. CM
 - **If possible:** taking into account updated specifications for A, I, N

- **Order:**

Engineering & IT:

- 1) Photonics
- 2) Mechanical Engineering
- 3) Energy & Environment
- 4) Electrical Engineering
- 5) Computer Science
- 6) Data Science
- 7) Mechatronics & Automation
- 8) Aviation
- 9) Business Engineering
- (14) Medical Engineering

Construction & Planning:

- 10) Civil Engineering
- 11) Building Technologies
- 12) Raumentwicklung und Landschaftsarchitektur
- 13) Geomatics

3. Compilation central Theory Modules - Questions



Short break



4. Conclusions I

➤ Remember «redesign specifications»:

- Use «I» for modules, who you want (partly) integrate in another module
=> module does not exist anymore (each «I» leads to an «A» or «N»)
- Use «A» for modules, who you want adapt the content; means: most of the content remains the same; e.g. master level, put a focus on a specific theme, ...
=> module still exists with the same module code
- Use «N» for new modules: modules with an absolutely new content and modules who have been merged => a new module code / module name is necessary
- Indicators for «N»
 - necessity of a new module group (remember: max. 2 lecturers/module)
 - more than 50% of the module content will change thematically
 - necessity of a new module name / module code
- Priorise selected Theory modules

	TSM	FTP	CM
ECTS concept	12-15 ECTS	9-12 ECTS	6-9 ECTS
Amount	As per profile	5	5
Prio 1	4	3	2
Prio 2	rest	2	3
Prio 3	-	-	-

4. Conclusions II

➤ see Flip Charts

5. Profile language

■ Profile language – interim results

A «profile language» needs to be defined => propose a language for your Profile regarding to the location

Name Profiles		Field of study	Central locations												Decentral locations			
			Zurich			Lausanne			Lugano			Bern						
			En	F	G	En	F	G	En	F	G	En	F	G				
Profiles	Business Engineering	E	x															
	Civil Engineering	C			x		x											
	Computer Science	E	x						x									
	Data Science	E	x			x												
	Electrical Engineering	E	x															
	Energy & Environment	E	x															
	Mechanical Engineering	E	x															
	Mechatronics & Automation	E	x															
	Medical Engineering	E	x												En	F	G	name of location
Small Profiles	Aviation	E	x															
	Building Technologies	C																
	Geomatics	C	x												x			
	Photonics	E	x															
	Raumentwicklung & Landschaftsarchitektur	C																

Field of study:

C = Construction & planning

E = Engineering & IT

Language:

En = English

F = French

G = German

x = according to the MSE-Redesign concept

x / x = feedback PCOs

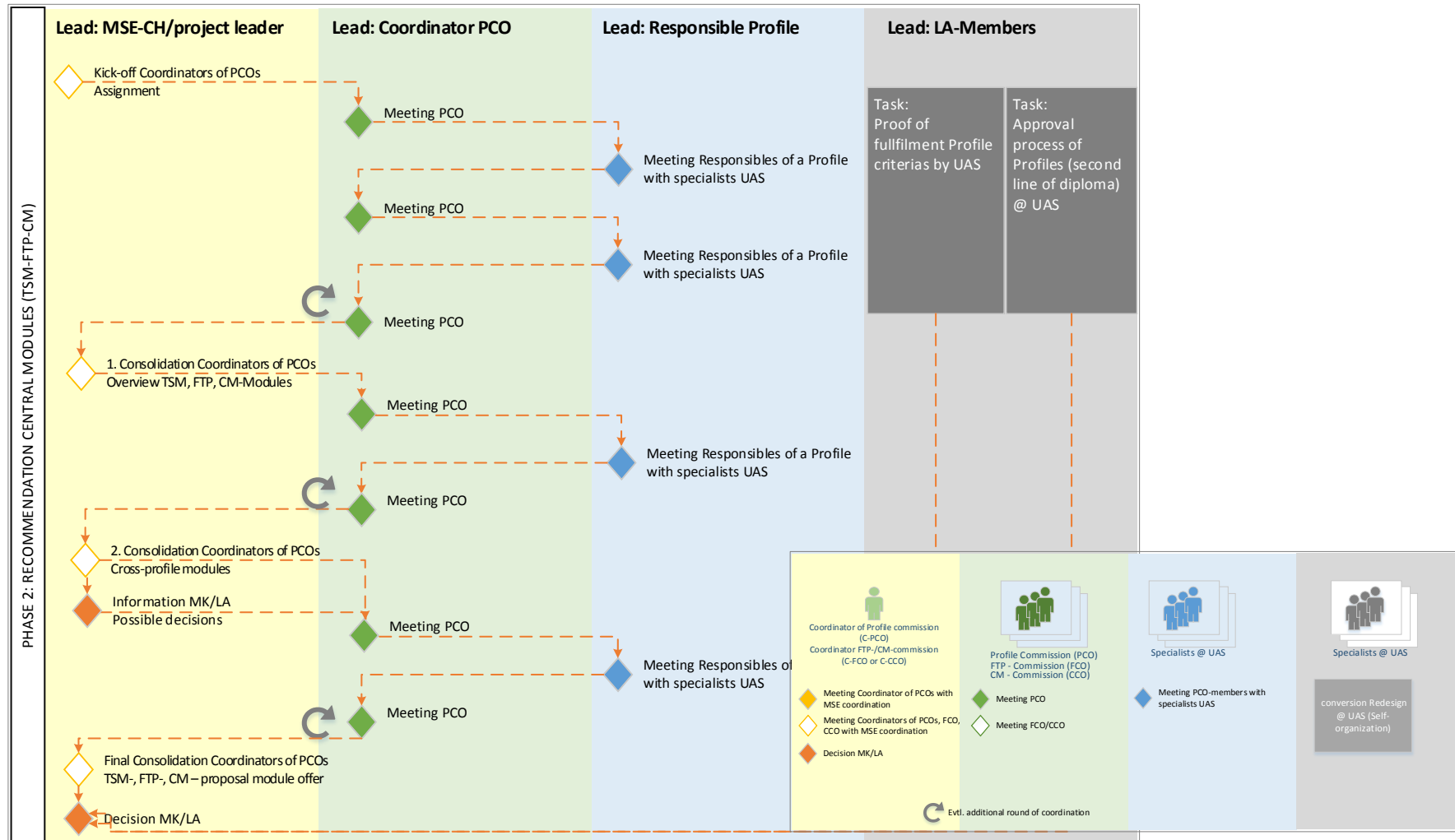


Feedback from remaining PCOs is needed until next Consolidation meeting

6. Further action

■ Procedure Phase 2

Final submission: 03.06.2019



6. Further action

■ Next steps PCOs

- 1) Fill out/revise specifications for new modules/modules to be adapted (s. template)
 - **Interim submission 1: 05. April 2019, 20:00, Switch-Drive each PCO folder**
2phase_modules/adapted_new_modules
SpecificTheoryModules_NamePCO_NameModule
- 2) Revision compilation central Theory Modules .xls-file (s. 4. Conclusions)
 - => taking into account redesign specifications for nominations «E, A, I, N»
 - => prioritise modules by taking into account the redesign specifications
- 3) Propose «profile language» (s. template)
 - **Interim submission 2+3: 19. April 2019, 20:00, mse-redesign@hsr.ch**

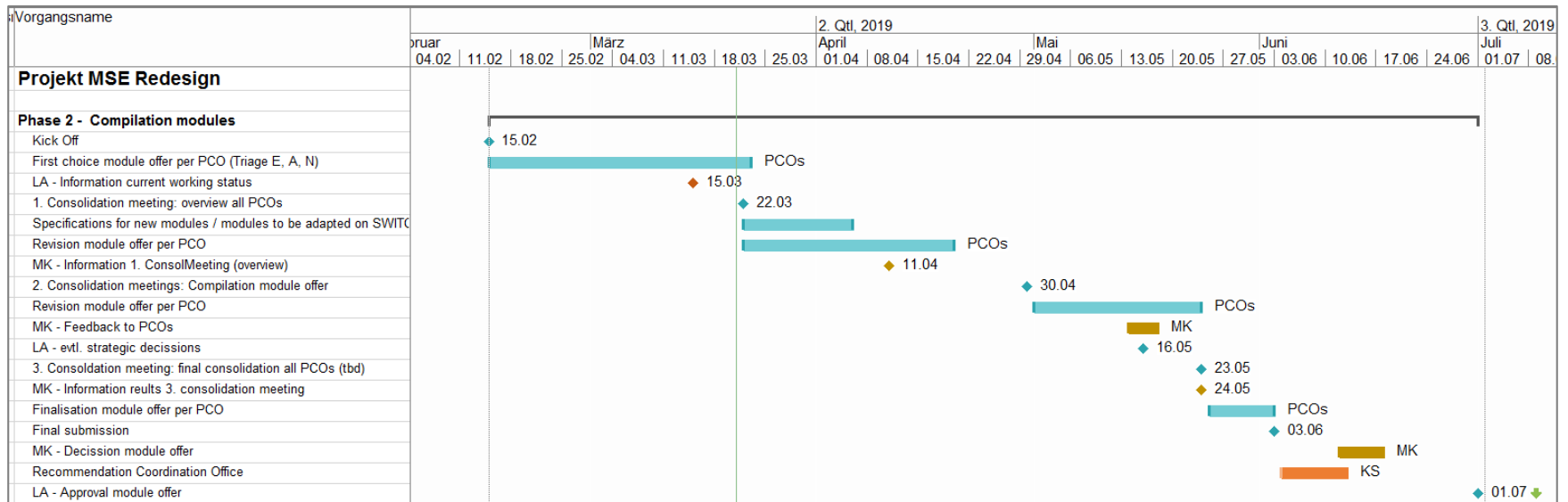
6. Further action

- 2. Consolidation meeting:
 - Session I: **30. April 2019, 14:15 – 17:30**
 - Session II: **03. Mai 2019 [for Avi, CE, (BT, Geo, ReLa)]**

- 3. Consolidation meeting:
 - to be decided
 - planned at the end of may 2019










6. Further action

■ Rough project plan hase 2



6. Further action

■ Dates (from today's perspective)

Date	Subject	Participants	Aim	Lead
CW 7 15.02.2019 	Kick-Off	C-PCOs R-PCOs	assignment	PL
CW 10 	Feedback work status	C-CPOs	current status	C-PCO
CW 11 12.03.2019 	Intermediate submission .xls File Selection Modules	C-PCOs	preparation consolidation meeting dispatch to MK	C-PCO
 CW 12 22.03.2019 	1. Consolidation meeting	C-PCOs	first approach Theory Modules / Profile	PL
CW 15 19.04.2019 	Intermediate submission	C-PCOs	preparation consolidation meeting	C-PCO
CW 18 30.04.2019 	2. Consolidation meeting	C-PCOs	Clarification & confirmation Theory Modules; questions/applications MK	PL
CW 18/19 tbd	MK	MK	Information	PL
CW 21 tbd 	3. Consolidation meeting	C-PCOs	Consolidation Theory Modules Module «constellations»	PL
CW 23 03.06.2019 	Deadline Final Submission			C-PCO
CW25 19.06.2019	Board (LA) Final decision	LA		PL

7. Varia

- MSE vocabulary: British English
- Questions C-PCOs telephone calls CW10 & answers PL (per Email)
- New profile abbreviations (MK):

Profile	Coordinator	UAS
Business Engineering (BE)	Jürg Hosang	ZHAW
Civil Engineering (CE)	Albin Kenel	HSLU
Computer Science (CS)	Hans-Peter Hutter	ZHAW
Data Science (DS)	Jean Hennebert	HES-SO
Electrical Engineering (EEn)	Hans Doran	ZHAW
Energy & Environment (EnEn)	Benno Bucher	FHO
Mechanical Engineering (ME)	Gregor Burkhard	FHNW
Mechatronics & Automation (MA)	Roberto Bucher	SUPSI
Medical Engineering (Med)	Eric Rosset	HES-SO
Aviation (Avi) seit 22.01.2019	Michel Guillaume	ZHAW
Building Technologies (BT)	Adrian Altenburger	HSLU
Geomatics (Geo)	Susanne Bleisch	FHNW
Photonics (Pho) seit 18.10.2018	Valerio Romano	BFH
Raumentwicklung und Landschaftsarchitektur (ReLa)	Markus Gasser	FHO

7. Varia

- Deputies for R-PCOs will be determined (request MK, decision LA)
- Traffic light – overview => please set your traffic light!

Name of the Profile	Short code	CW10	CW12 1ConsolM	Comment CW12
Business Engineering	BE			
Civil Engineering	CE			
Computer Science	CS			
Data Science	DS			
Electrical Engineering	EEn			
Energy and Environment	EnEn			
Mechanical Engineering	ME			
Mechatronics and Automation	MA			
Medical Engineering	Med	?		
Small Profiles				
Aviation	Avi			
Building Technologies	BT			
Geomatics	Geo			
Photonics	Pho			
Raumentwicklung und Landschaftsarchitektur	ReLa			

8. A.O.B, Thanks

- Any other business?
- Thank you very much for your attention!

8. A.O.B, Thanks

MSE 2gether!

