

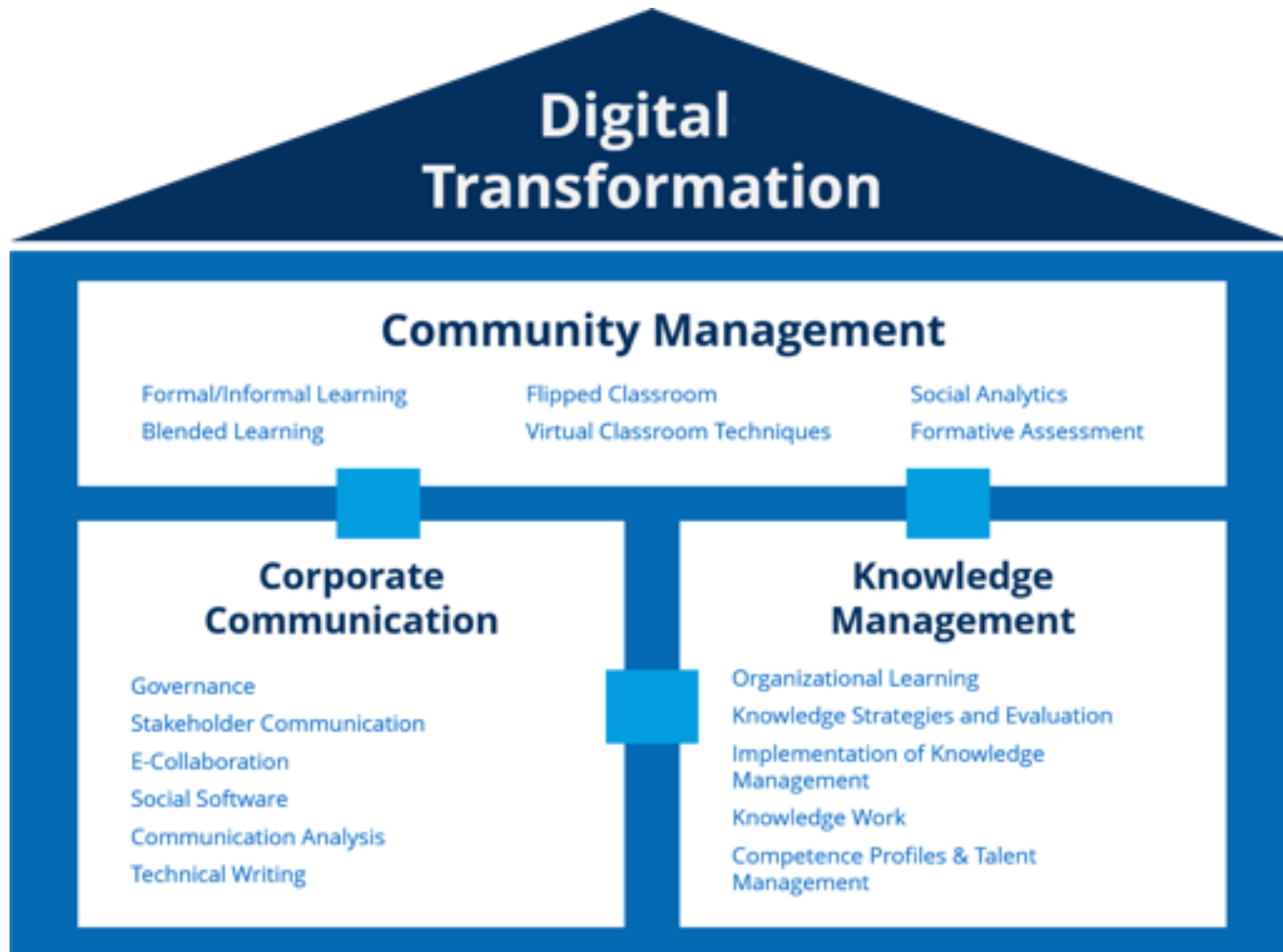
Dr. Wissam Tawileh

Chair of Wirtschaftsinformatik – Information Management

Digital Social Learning Analytics - The Virtual Mobility Project “JOVITAL”

ZSLB International Workshop

Technische Universität Dresden – 22.10.2019



Internationalization of Higher Education

- “the process of integrating an international, intercultural, or global dimension into the purpose, functions or delivery of post-secondary education.”
(Knight, 2004)

Internationalization at Home

- “any internationally related activity with the exception of outbound student and staff mobility.”
(Crowther et al., 2000)

Virtual Mobility

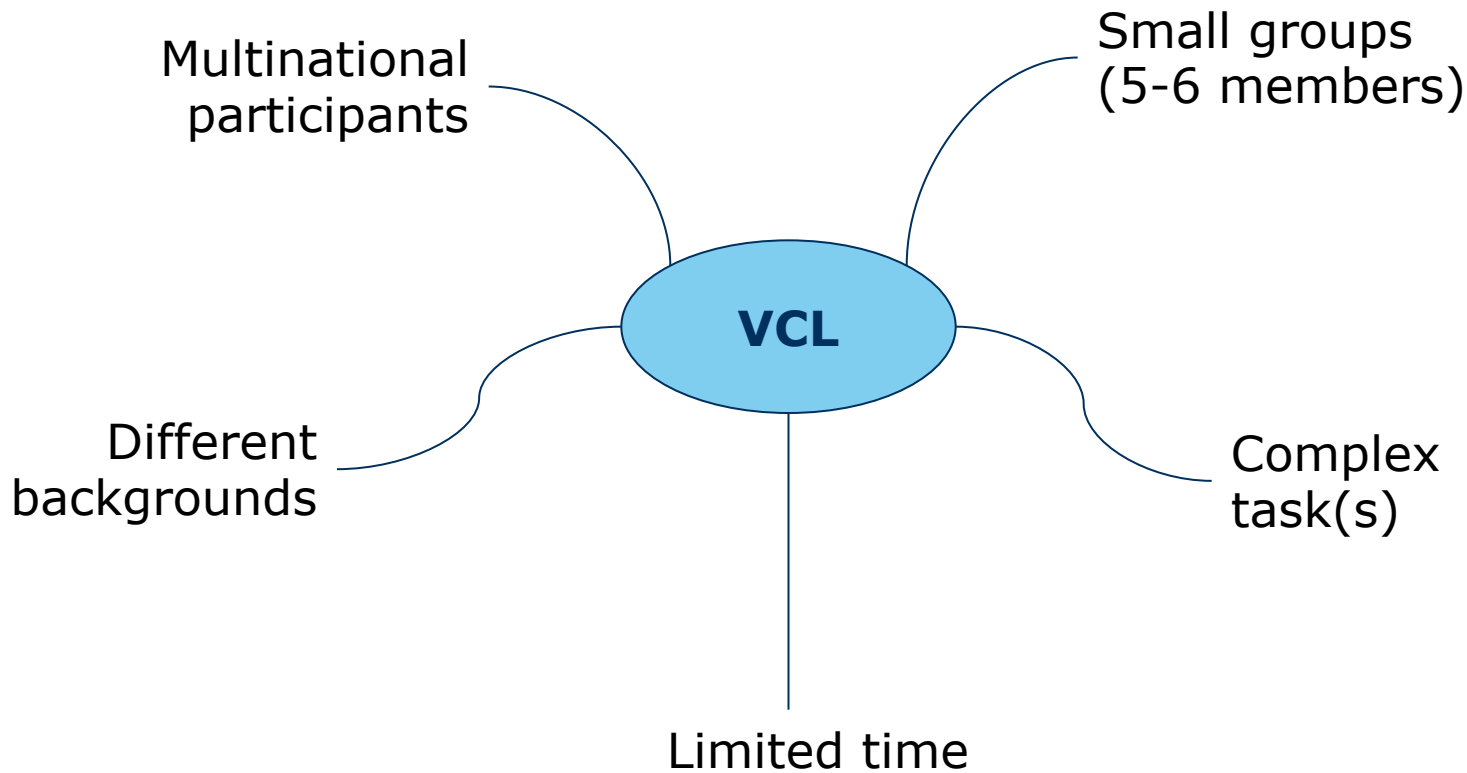
- “the set of ICT supported activities that realize or facilitate international, collaborative experiences in a context of teaching and/or learning”
(Achten et al., 2010)

Chair of Information Management

- 15 Years VCL / 54+ Courses
- 16+ Partners
- 12+ Countries

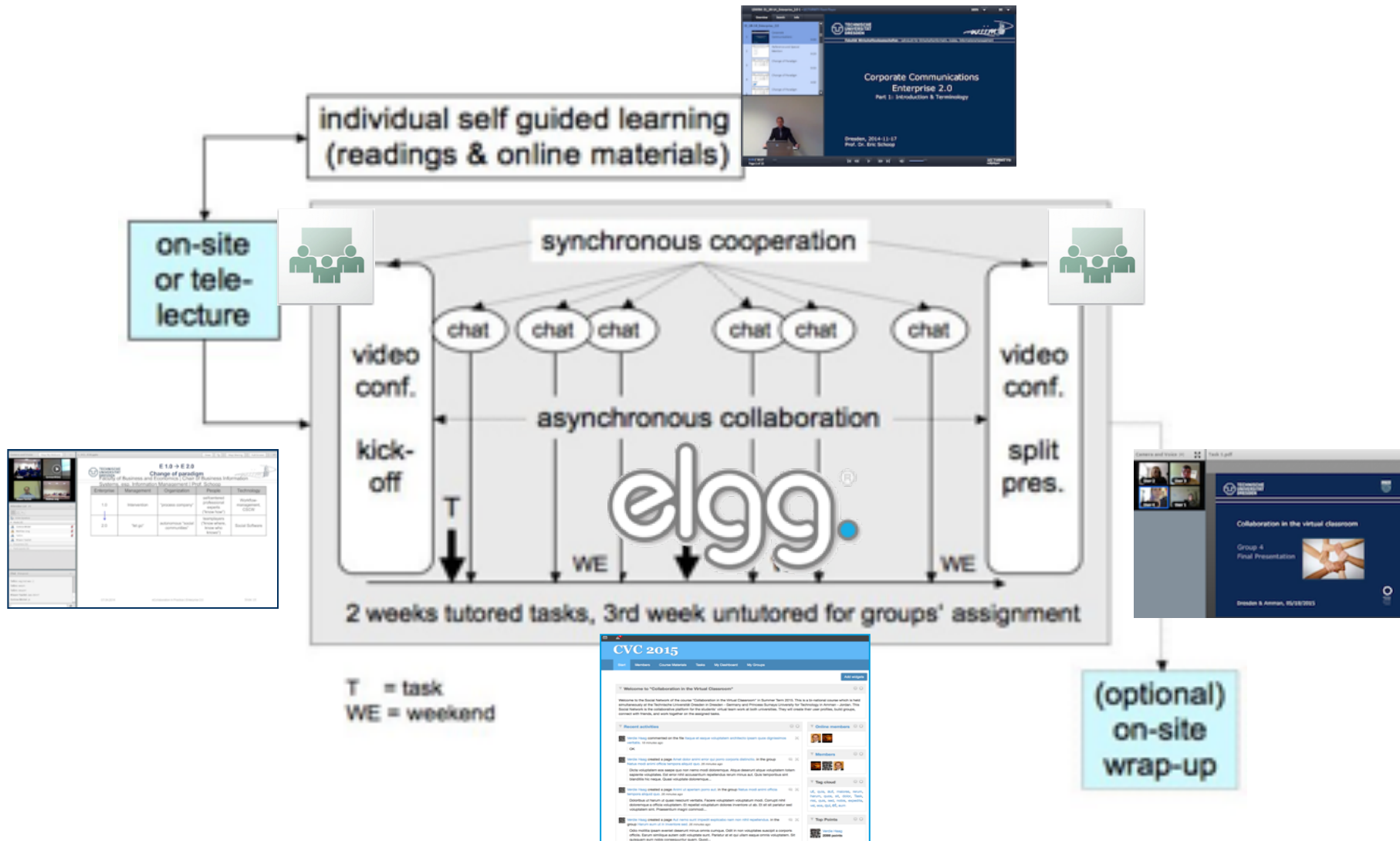


Virtual Collaborative Learning (VCL) Characteristics



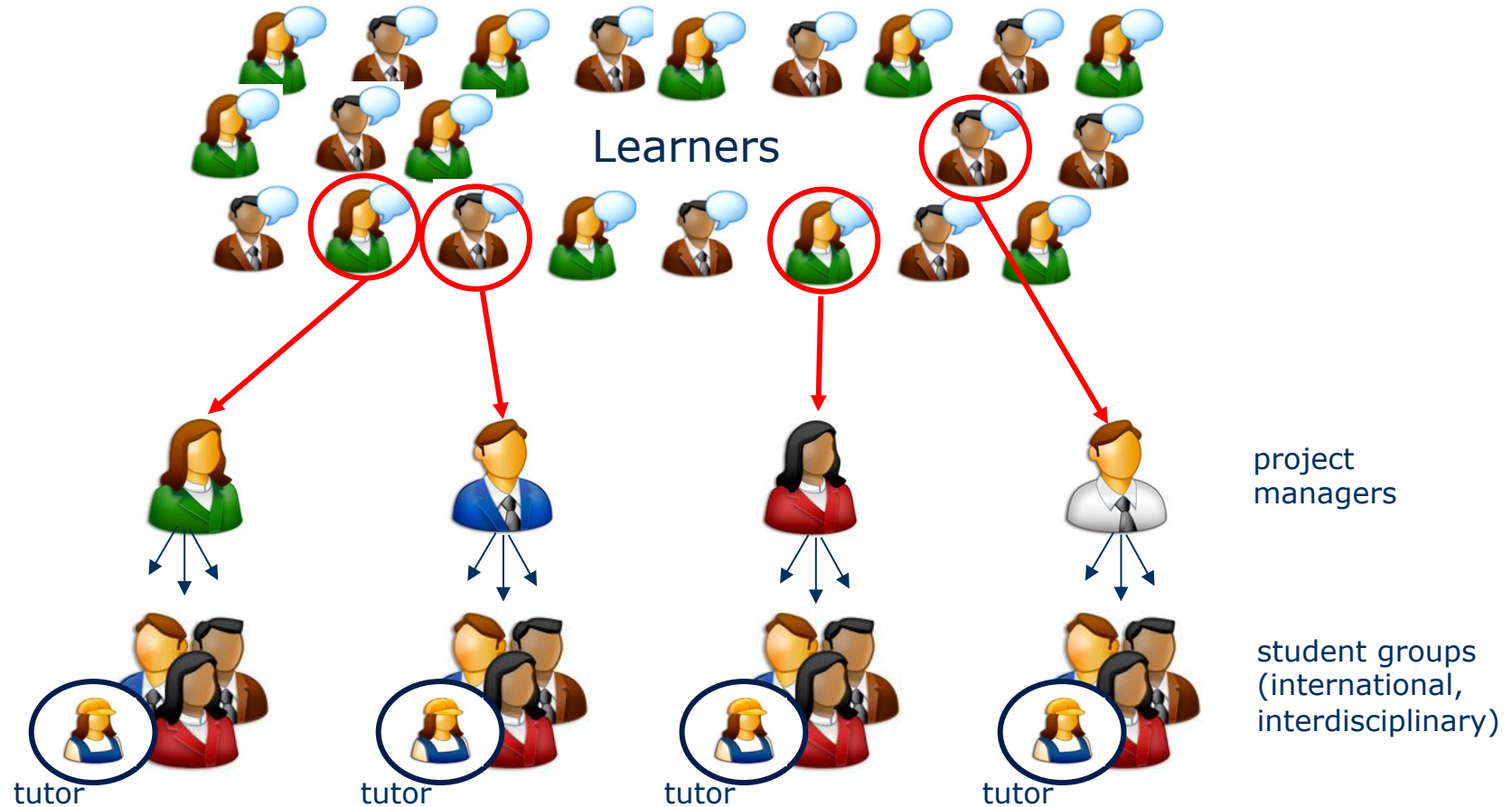
Virtual Collaborative Learning (VCL) Workflow

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Virtual Collaborative Learning (VCL) Team Building

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Virtual Collaborative Learning (VCL) Key Components

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Qualified E-Tutors

Specialized Support

- Clarification of content issues
- Assistance with comprehension problems, ambiguities, misunderstandings
- References to literature and tips for working techniques and methods
- Guidance for learning tasks, hints for processing learning tasks
- Feedback on learning tasks and on the method)

Personal and Group-Related Support

- (Support in the) organization of learning activities
- Feedback on the learning behavior of the individual/group
- Support in conflicts
- Support in case of learning problems of the individual/group

Technical Support

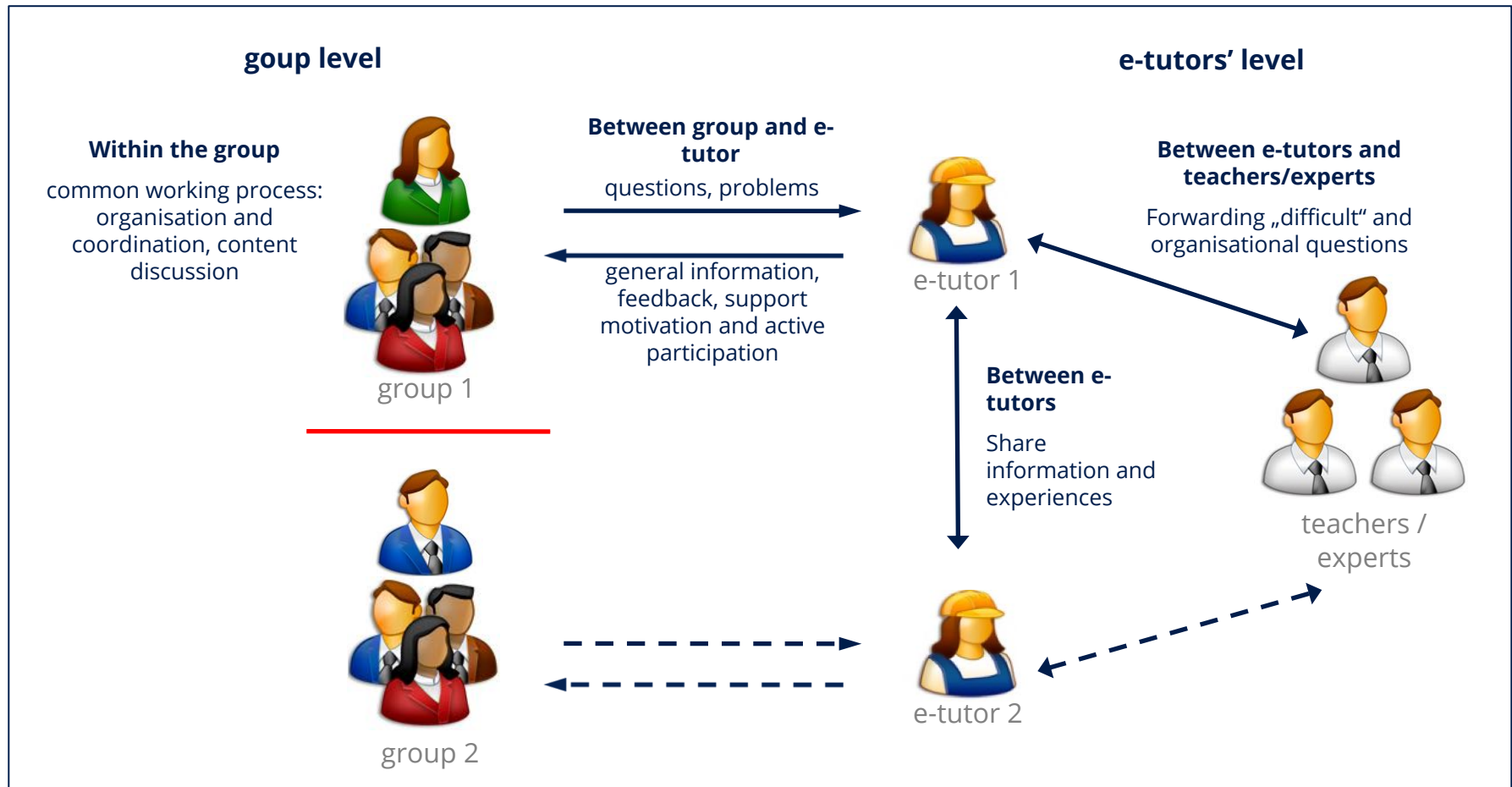
- Support in dealing with collaboration tools (functionality, selection, technical problems)

Organizational Support

- Supervision of the timely processing of the task

Evaluation

- Support of the evaluation while using an evaluation instrument



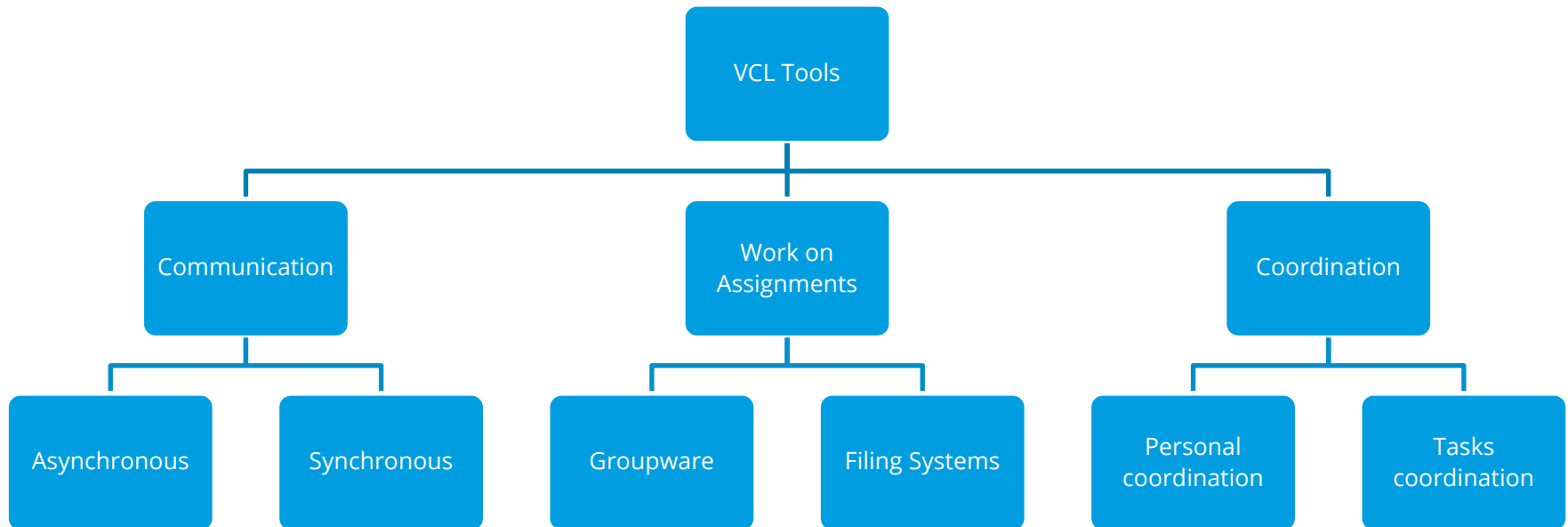
Realistic	• Provide vocation-oriented knowledge • Close connection to possible corporate problems as well as future job tasks • Characterized by open solutions that need in-depth explanation, tasks should focus on gaining new practical usable knowledge through discussion and exchange
Collaborative	• Tasks have to be solved in groups and need a multi-perspective input • Learners learn from each other • Active virtual communication is a must
Self-organized	• Self- determined scheduling and distribution of roles and tasks • Learning supporters accompany learners instead of leading them

Virtual Collaborative Learning (VCL) Social Learning Platform

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Virtual Collaborative Learning (VCL) Technology Requirements

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Groups' Activity excluding "Likes" (10.05. 14:00 - 11.05. 14:00)

Top Active Members

	sufian airawajfi 56000 points
	Sara Ammourah 33270 points
	Tamara Adnan 29560 points
	Ilias qawasmeh 20810 points
	leen_114811_just 18830 points
	Shoroq112691_just 18040 points
	heba114005_just 17905 points
	Saja Shamsi119790_just 17645 points
	Razan120067_just 17445 points
	Zaid Hamasha 17285 points

**TECHNISCHE
UNIVERSITÄT
DRESDEN**

Faculty of Business and Economics | Chair of Wirtschaftsinformatik - Information Management

CERTIFICATE OF ATTENDANCE

This is to certify that in April-May 2018
XXX XXX
successfully participated in the international, virtual collaborative learning course
"Collaboration in the Virtual Classroom"

Course information:

TUD-Module	MA-WW-ERG-1101/D-WW-WIN-1101
Workload	Corresponds to 5 European Credit Transfer System (ECTS) points: • 2 Hours presence kick-off meeting • 48 Hours virtual collaborative case study group work online • 100 Hours self-study, reflection, documentation, and results presentation
Objectives	In this course participants: • gained knowledge about cross-cultural communication • self-organized and exercised collaboration in virtual teams • practiced interdisciplinary problem-solving skills • used English language for scientific and corporate communication • applied theoretical knowledge in practical business situation • learned to use Social Media for business-related Virtual Collaboration
Activities	• Virtual professional team-building activities in a social network • Cross-cultural critical incidents analyses and discussion • Scientific research for practical solution development and reporting • Project management in a virtual environment
Outcomes	• A group agreement for successful virtual collaboration • An online Blog with rational discussion of a given critical incident • A new critical incident for Human Resources cross-cultural qualification • A virtual presentation of the developed group solution • The documentation of the collaboration process and results

Dresden, 01 September 2018: _____
Prof. Dr. Eric Schoop

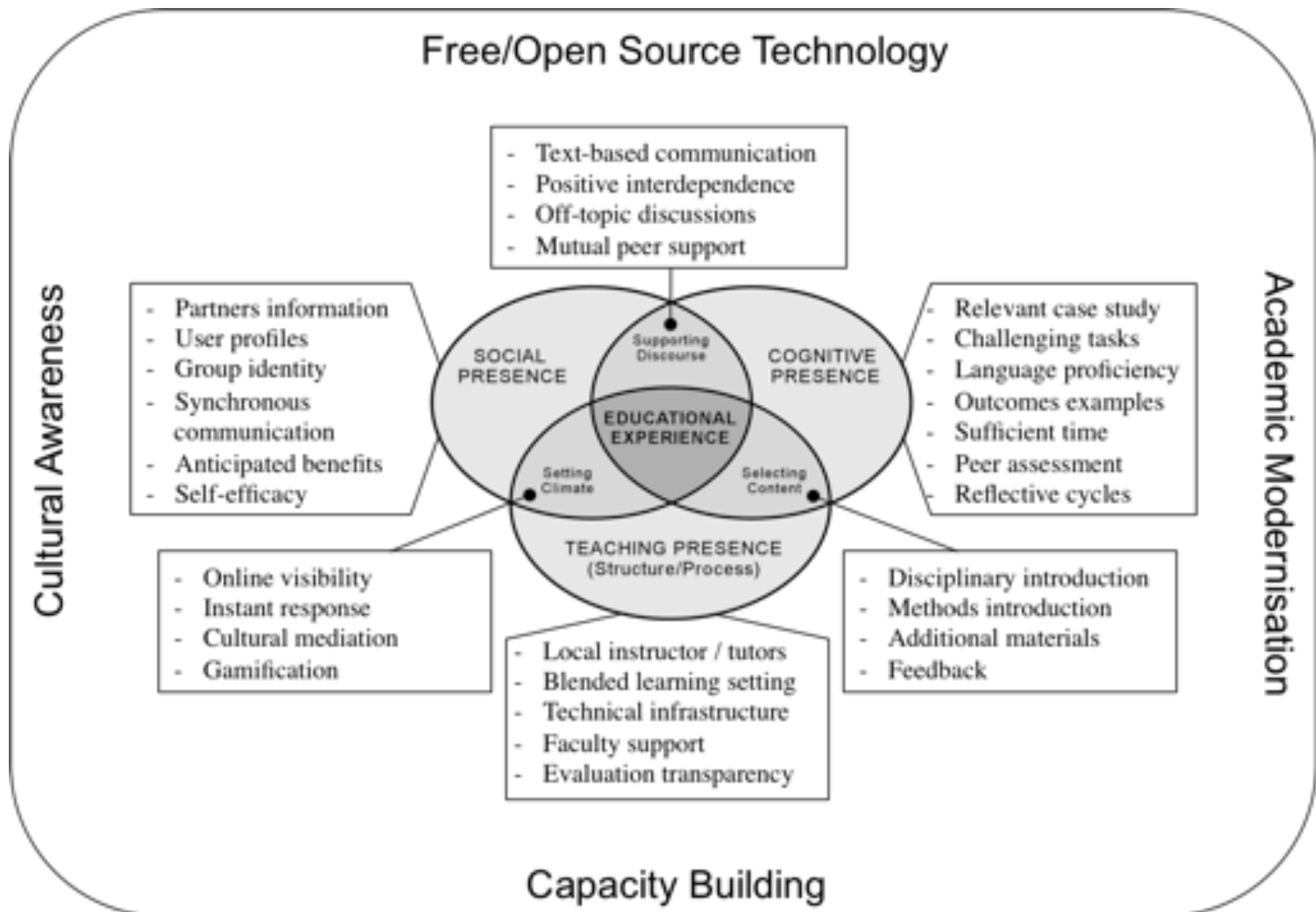
The course was held in cooperation with Princess Sumaya University for Technology






Virtual Collaborative Learning (VCL) Multi-Cultural Design Principles

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Hofstede Cultural Insights



<http://geert-hofstede.com/countries.html>

[illegible]

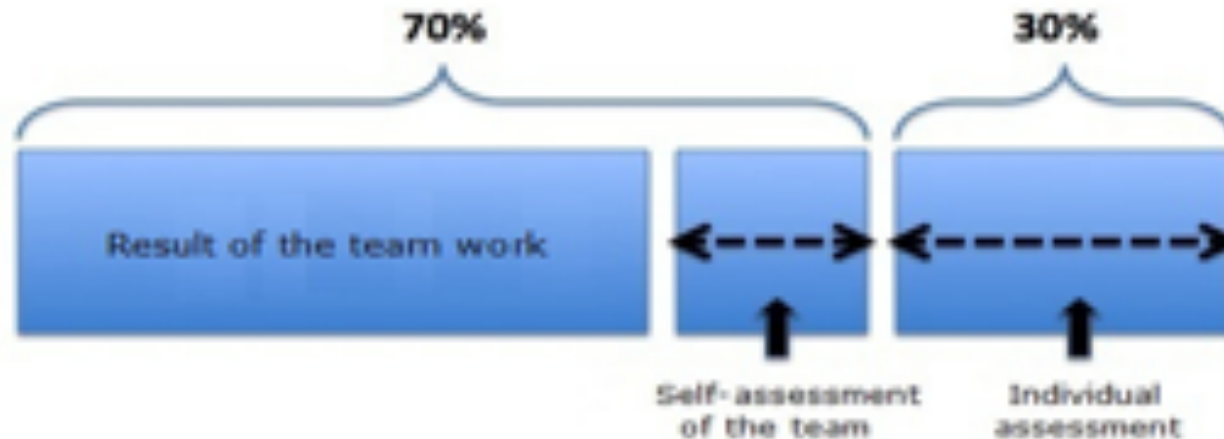
Rating

Three steps to final mark:

1. Rating of the team work's result
2. Self-assessment of the team
3. Individual assessment

} 70%

} 30%

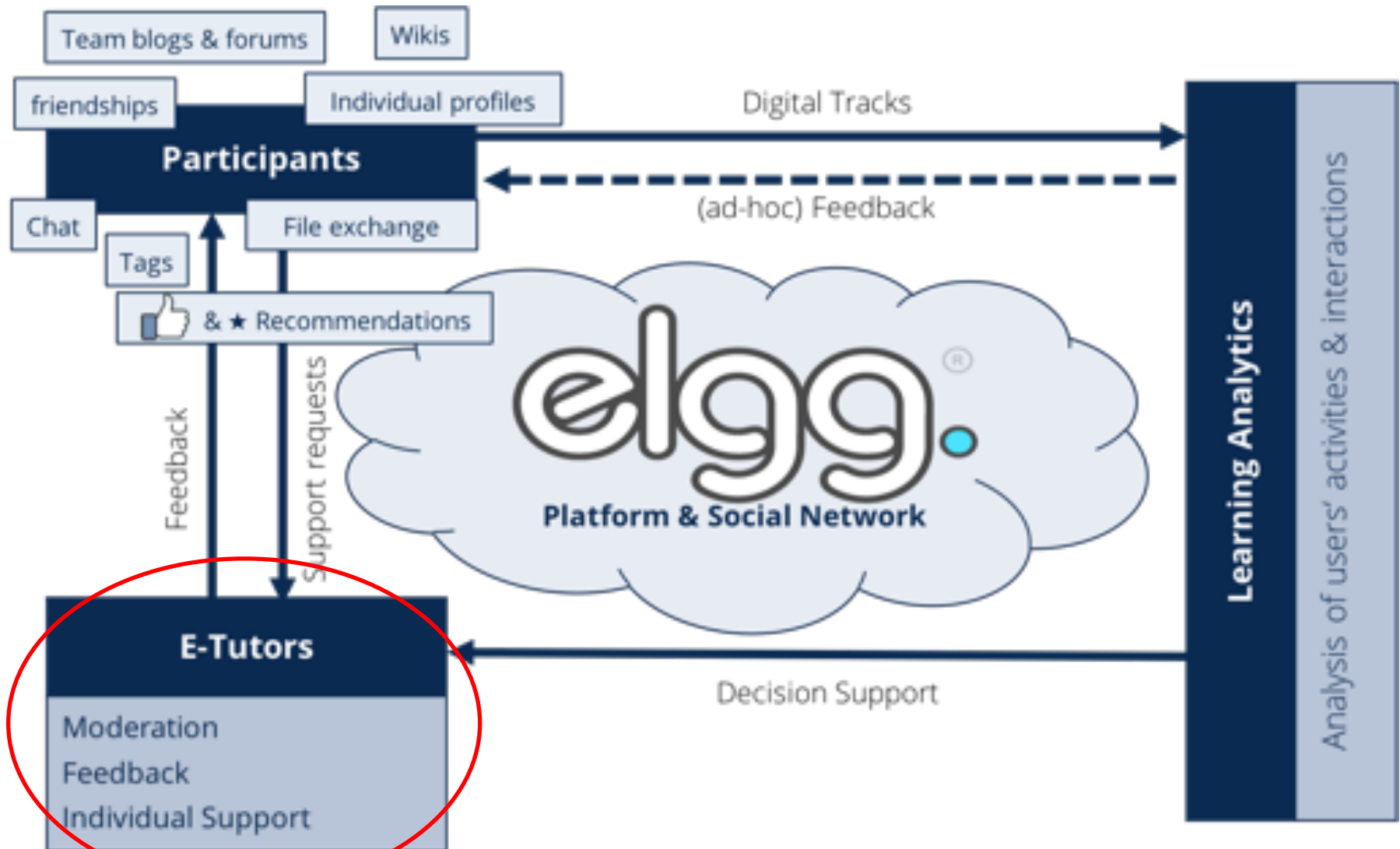


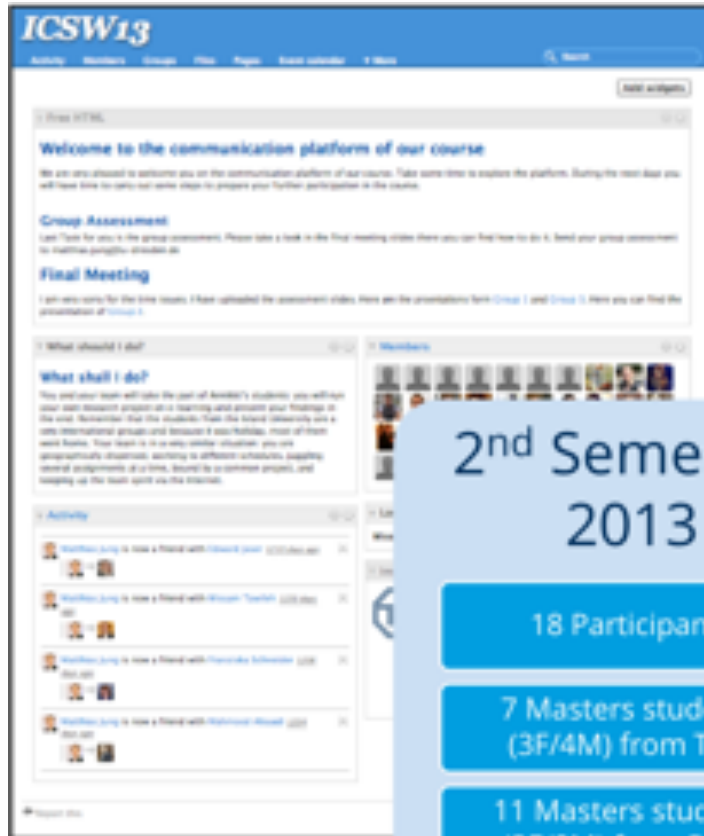
Virtual Collaborative Learning (VCL) Teams Self-Assessment

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Reflective Cycle (Gibbs 1988)





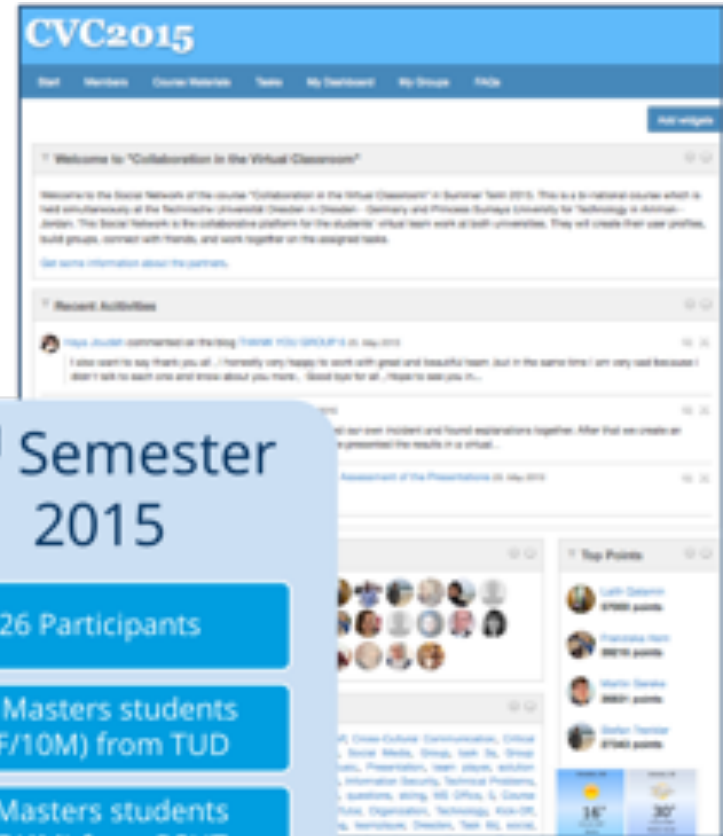
2nd Semester
2013

18 Participants

7 Masters students
(3F/4M) from TUD

11 Masters students
(3F/8M) from PSUT

Part of the compulsory
"Research Seminar"



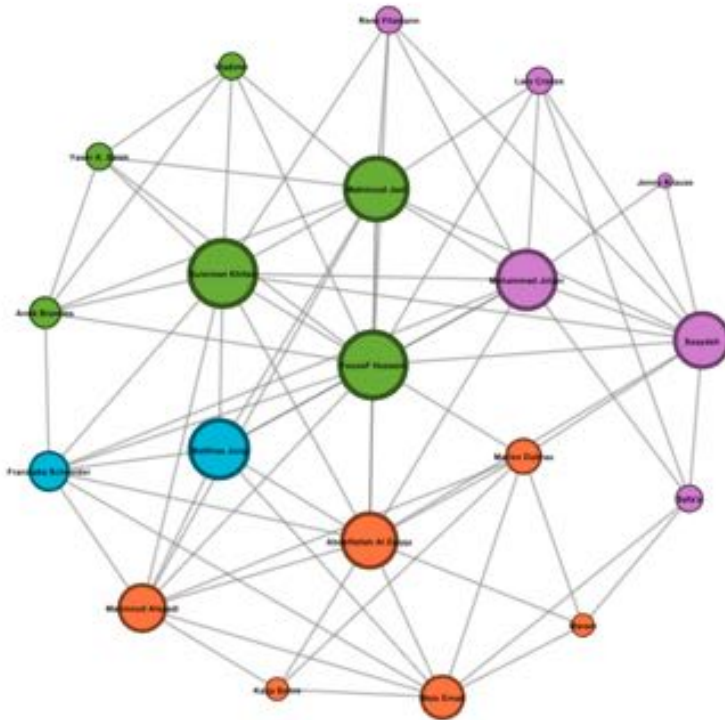
2nd Semester
2015

26 Participants

18 Masters students
(8F/10M) from TUD

8 Masters students
(4F/4M) from PSUT

Part of the compulsory
"Research Seminar"



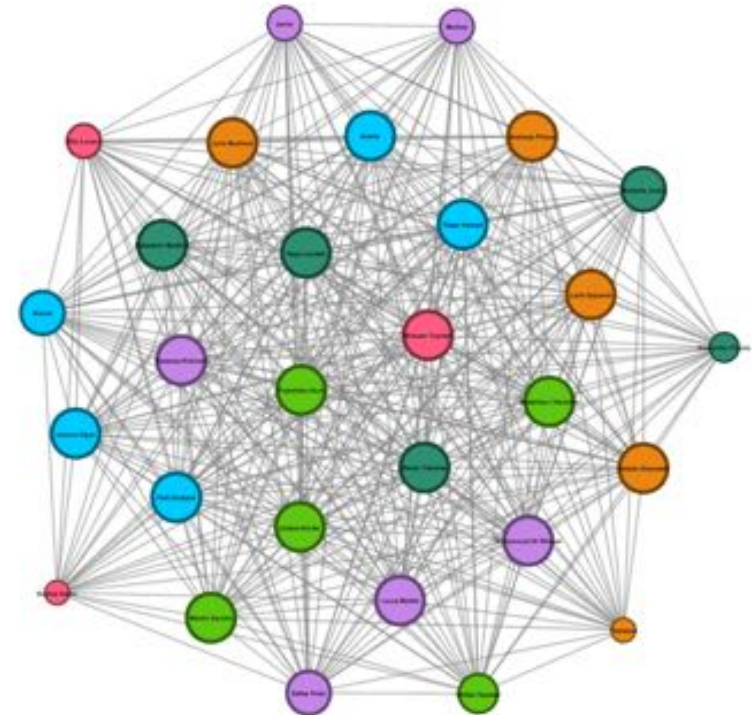
Course 1

20 Nodes, 76 Edges

Graph density: 0.4 / Avg. Degree: 7.6

Avg. Path Length: 1.716

Network Diameter: 3



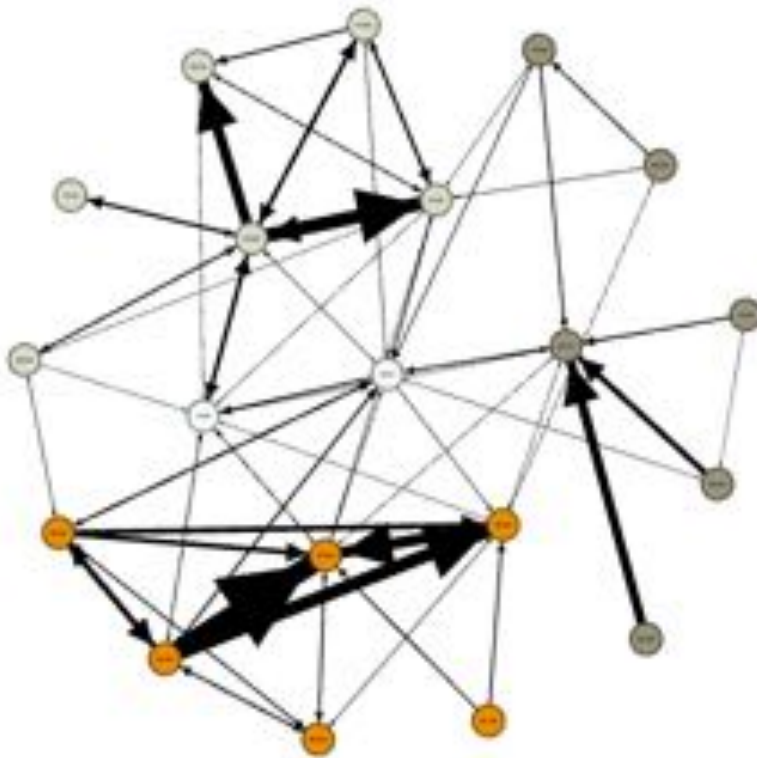
Course 2

29 Nodes, 392 Edges

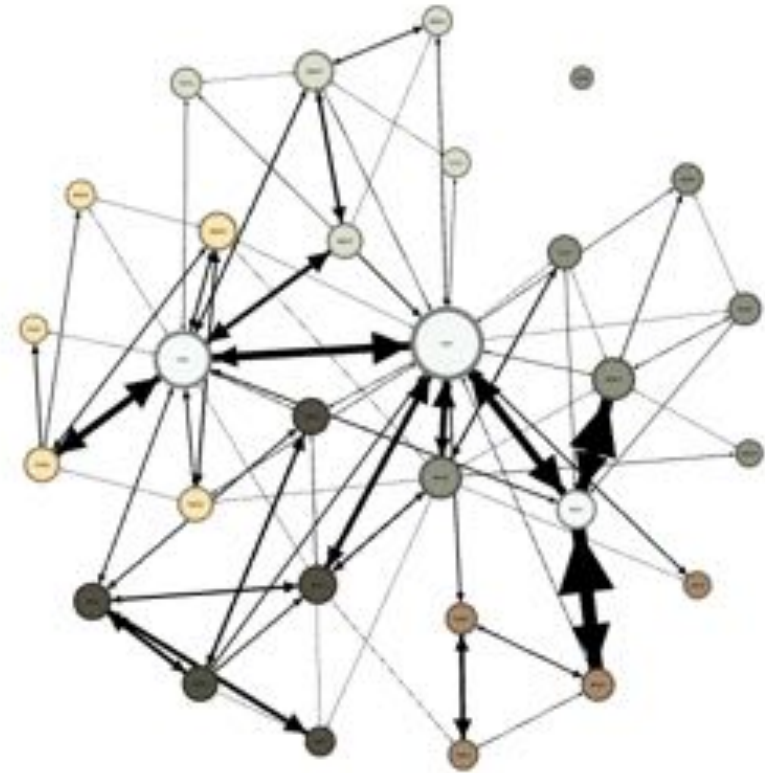
Graph density: 0.966 / Avg. Degree: 27.034

Avg. Path Length: 1.034

Network Diameter: 2



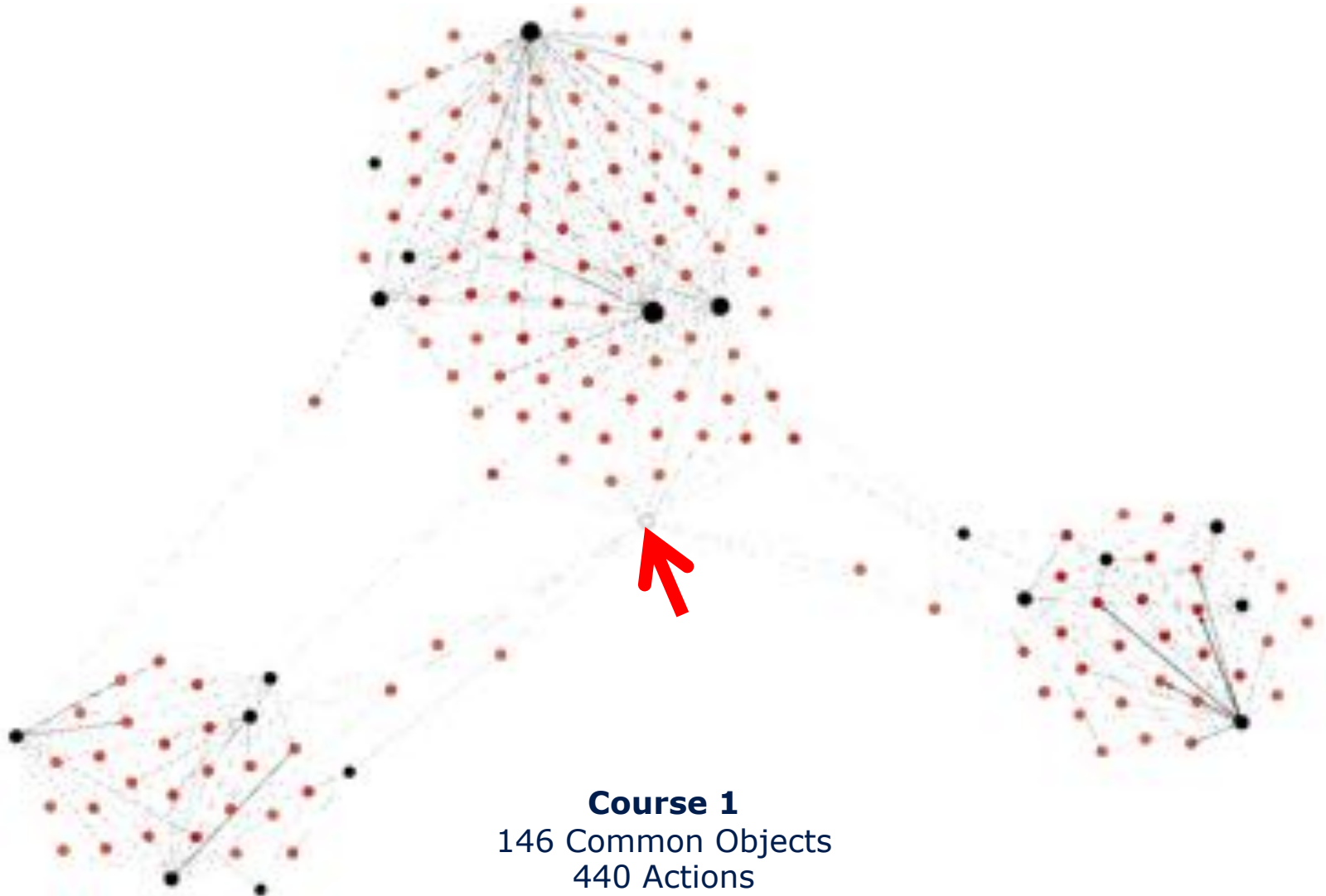
Course 1
Avg. weighted degree:
31.150
Total Messages: 621



Course 2
Avg. weighted degree:
18.793
Total Messages: 599

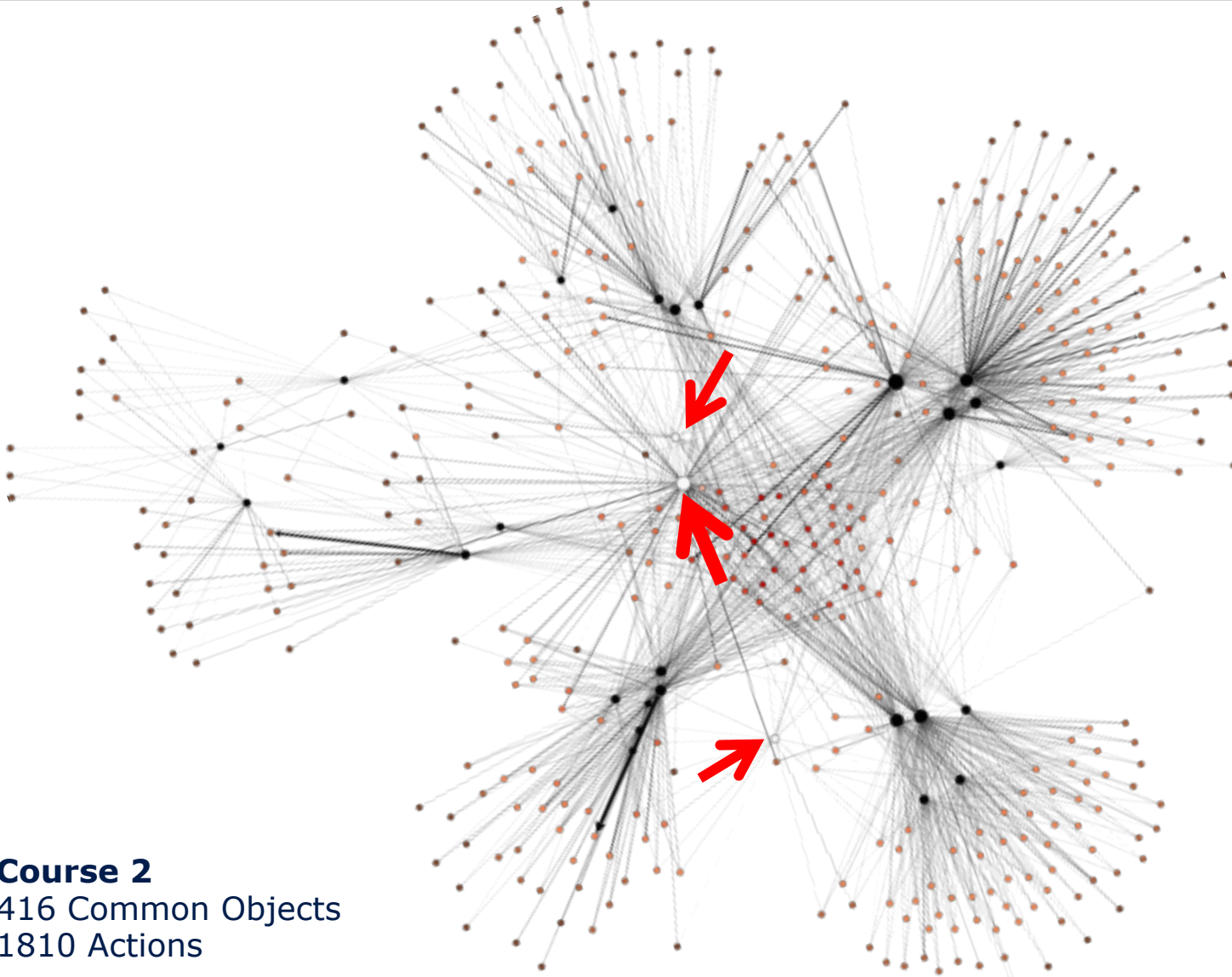
Virtual Collaborative Learning (VCL) SLA – Interaction with Learning Objects

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Virtual Collaborative Learning (VCL) SLA – Interaction with Learning Objects

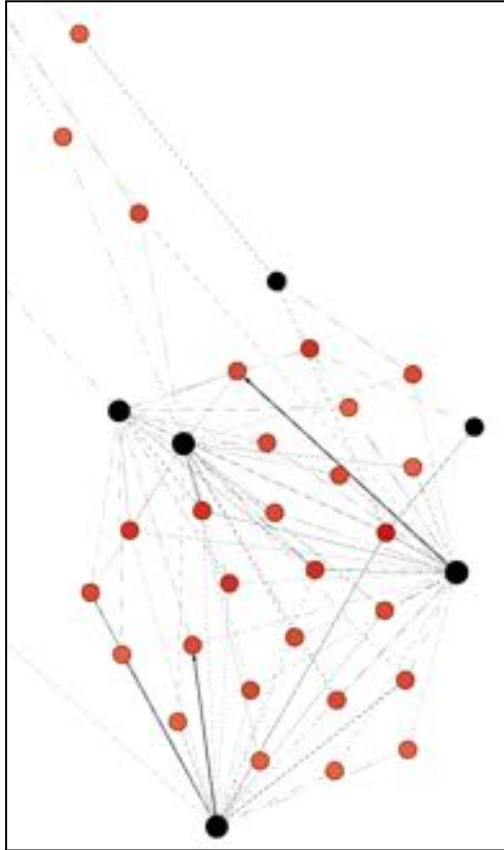
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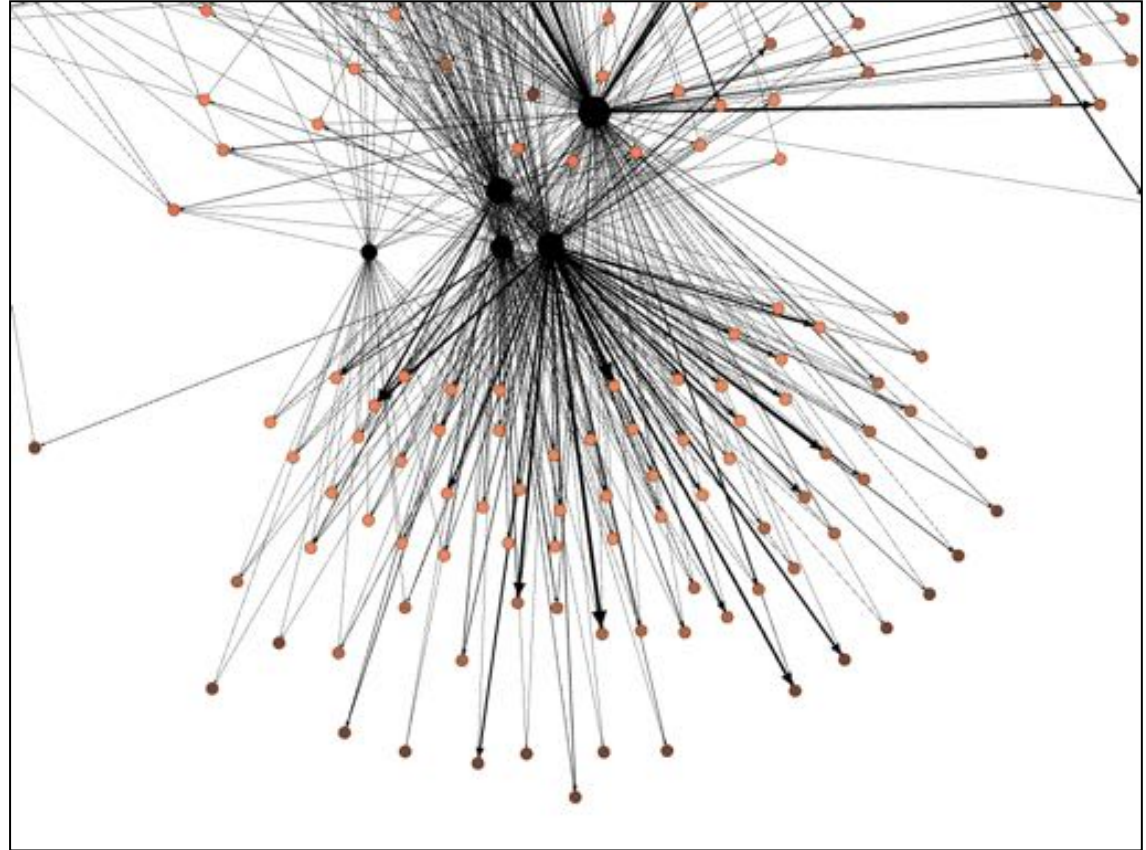
Course 2
416 Common Objects
1810 Actions

Virtual Collaborative Learning (VCL) SLA – Interaction with Learning Objects

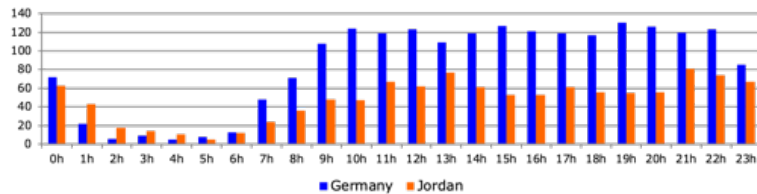
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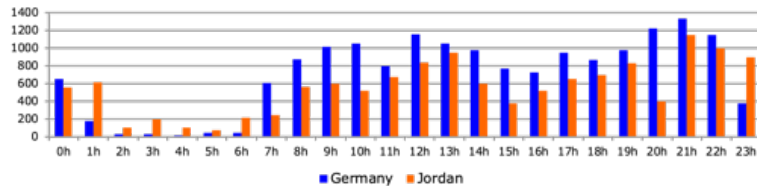
Course 1
Group 3
6 Members (2 F, 4 M)



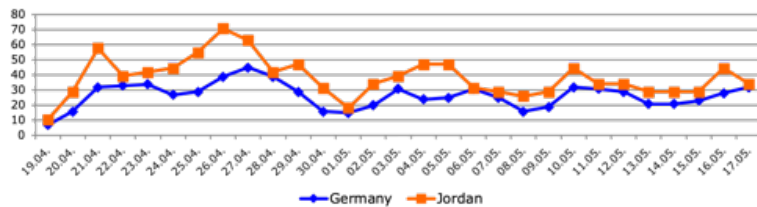
Course 2
Group 1
5 Members (3 F, 2 M)



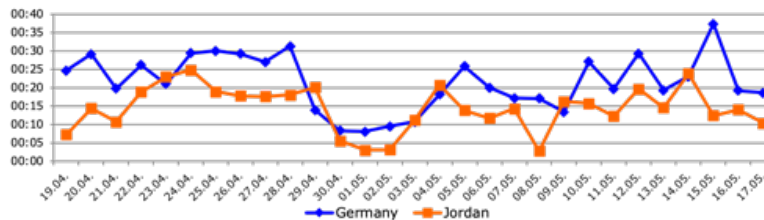
Total visits per local time



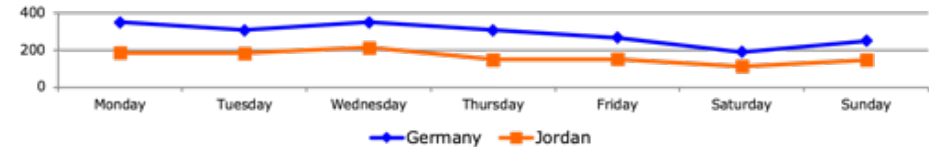
Total actions per local time



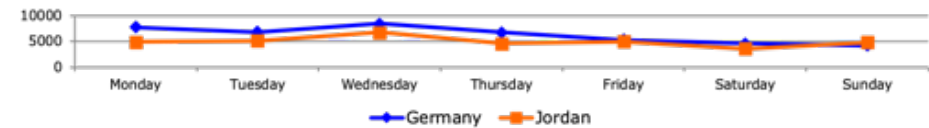
Number of visits over course duration



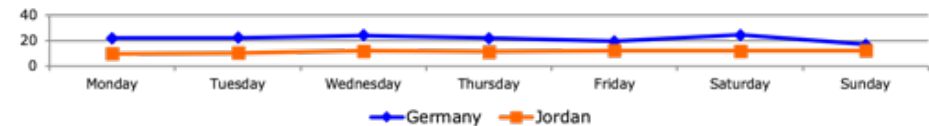
Average time per visit (minutes) over course duration



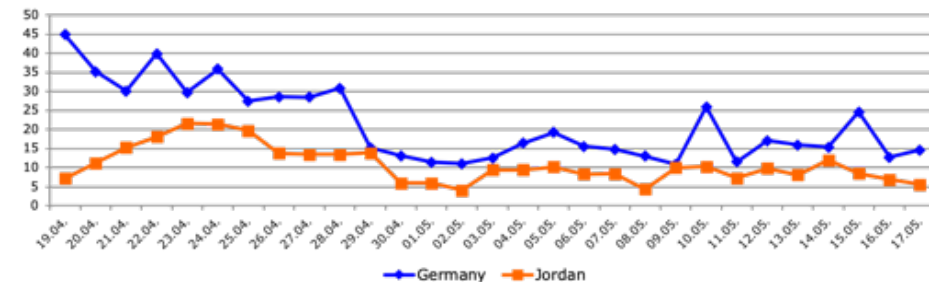
Visits per day of the week



Actions per day of the week



Average actions per visit per day of the week

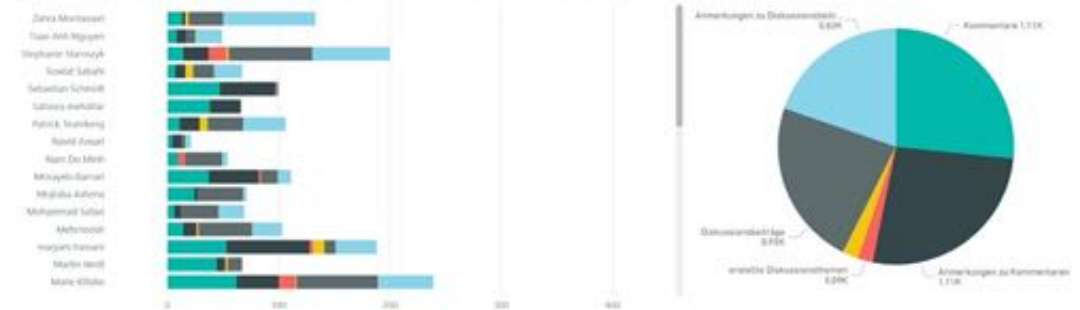


Average actions per visit over course duration

Diskussionsdashboard

Diskussionen und Kommentare:

Gruppe	Benutzername	Benutzer-ID	Benutzer-Grp	Benutzer-Grp	Benutzer-Grp	Benutzer-Grp	Benutzer-Grp	Benutzer-Grp	Benutzer-Grp
Group 1	Wolfgang Müller	1275	10	40	0	0	0	1	1
Group 2	Alena Grylls	851	11	0	0	0	0	22	5
Group 3	Benjamin La	2456	16	0	2	1	0	0	20
Group 4	Constantin Kall	1670	11	0	0	0	0	40	0
Group 5	Ulfen Kall	1460	11	0	0	0	0	10	10
Group 6	Andi Wüchters	574	1	0	0	0	0	10	4
Group 7	Wolfgang Müller	1275	10	0	0	0	0	10	3
Group 8	Benjamin La	2456	16	0	0	0	0	10	44
Group 9	Ulfen Kall	1460	11	0	0	0	0	0	0
Group 10	Andi Wüchters	574	1	0	0	0	0	0	0
Group 11	Wolfgang Müller	1275	10	0	0	0	0	0	0
Group 12	Benjamin La	2456	16	0	0	0	0	0	0
Group 13	Constantin Kall	1670	11	0	0	0	0	0	0
Group 14	Ulfen Kall	1460	11	0	0	0	0	0	0
Group 15	Andi Wüchters	574	1	0	0	0	0	0	0
Group 16	Wolfgang Müller	1275	10	0	0	0	0	0	0
Group 17	Benjamin La	2456	16	0	0	0	0	0	0
Group 18	Constantin Kall	1670	11	0	0	0	0	0	0
Group 19	Ulfen Kall	1460	11	0	0	0	0	0	0
Group 20	Andi Wüchters	574	1	0	0	0	0	0	0
Group 21	Wolfgang Müller	1275	10	0	0	0	0	0	0
Group 22	Benjamin La	2456	16	0	0	0	0	0	0
Group 23	Constantin Kall	1670	11	0	0	0	0	0	0
Group 24	Ulfen Kall	1460	11	0	0	0	0	0	0
Group 25	Andi Wüchters	574	1	0	0	0	0	0	0
Group 26	Wolfgang Müller	1275	10	0	0	0	0	0	0
Group 27	Benjamin La	2456	16	0	0	0	0	0	0
Group 28	Constantin Kall	1670	11	0	0	0	0	0	0
Group 29	Ulfen Kall	1460	11	0	0	0	0	0	0
Group 30	Andi Wüchters	574	1	0	0	0	0	0	0



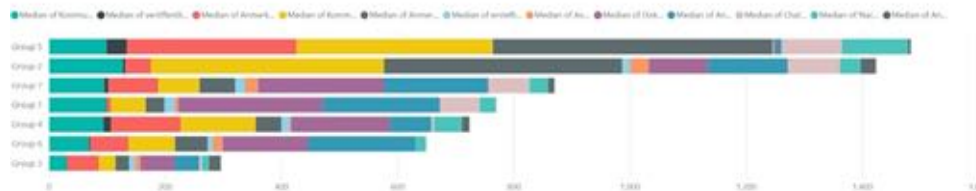
Teamkommunikation

Teamkommunikation:

Gruppe	Benutzername	Benutzer-ID	Benutzer-Grp	Benutzer-Grp	Benutzer-Grp	Benutzer-Grp	Benutzer-Grp	Benutzer-Grp	Benutzer-Grp
Group 1	Wolfgang Müller	1275	10	40	0	0	0	0	1
Group 2	Alena Grylls	851	11	0	0	0	0	0	22
Group 3	Benjamin La	2456	16	0	2	1	0	0	20
Group 4	Constantin Kall	1670	11	0	0	0	0	0	40
Group 5	Ulfen Kall	1460	11	0	0	0	0	0	10
Group 6	Andi Wüchters	574	1	0	0	0	0	0	10
Group 7	Wolfgang Müller	1275	10	0	0	0	0	0	10
Group 8	Benjamin La	2456	16	0	0	0	0	0	10
Group 9	Ulfen Kall	1460	11	0	0	0	0	0	10
Group 10	Andi Wüchters	574	1	0	0	0	0	0	10
Group 11	Wolfgang Müller	1275	10	0	0	0	0	0	10
Group 12	Benjamin La	2456	16	0	0	0	0	0	10
Group 13	Constantin Kall	1670	11	0	0	0	0	0	10
Group 14	Ulfen Kall	1460	11	0	0	0	0	0	10
Group 15	Andi Wüchters	574	1	0	0	0	0	0	10
Group 16	Wolfgang Müller	1275	10	0	0	0	0	0	10
Group 17	Benjamin La	2456	16	0	0	0	0	0	10
Group 18	Constantin Kall	1670	11	0	0	0	0	0	10
Group 19	Ulfen Kall	1460	11	0	0	0	0	0	10
Group 20	Andi Wüchters	574	1	0	0	0	0	0	10
Group 21	Wolfgang Müller	1275	10	0	0	0	0	0	10
Group 22	Benjamin La	2456	16	0	0	0	0	0	10
Group 23	Constantin Kall	1670	11	0	0	0	0	0	10
Group 24	Ulfen Kall	1460	11	0	0	0	0	0	10
Group 25	Andi Wüchters	574	1	0	0	0	0	0	10
Group 26	Wolfgang Müller	1275	10	0	0	0	0	0	10
Group 27	Benjamin La	2456	16	0	0	0	0	0	10
Group 28	Constantin Kall	1670	11	0	0	0	0	0	10
Group 29	Ulfen Kall	1460	11	0	0	0	0	0	10
Group 30	Andi Wüchters	574	1	0	0	0	0	0	10

Einzelkommunikation:

Gruppe	Benutzername	Benutzer-ID	Benutzer-Grp	Benutzer-Grp	Benutzer-Grp	Benutzer-Grp	Benutzer-Grp	Benutzer-Grp	Benutzer-Grp
Group 1	Wolfgang Müller	1275	10	40	0	0	0	0	1
Group 2	Alena Grylls	851	11	0	0	0	0	0	22
Group 3	Benjamin La	2456	16	0	2	1	0	0	20
Group 4	Constantin Kall	1670	11	0	0	0	0	0	40
Group 5	Ulfen Kall	1460	11	0	0	0	0	0	10
Group 6	Andi Wüchters	574	1	0	0	0	0	0	10
Group 7	Wolfgang Müller	1275	10	0	0	0	0	0	10
Group 8	Benjamin La	2456	16	0	0	0	0	0	10
Group 9	Ulfen Kall	1460	11	0	0	0	0	0	10
Group 10	Andi Wüchters	574	1	0	0	0	0	0	10
Group 11	Wolfgang Müller	1275	10	0	0	0	0	0	10
Group 12	Benjamin La	2456	16	0	0	0	0	0	10
Group 13	Constantin Kall	1670	11	0	0	0	0	0	10
Group 14	Ulfen Kall	1460	11	0	0	0	0	0	10
Group 15	Andi Wüchters	574	1	0	0	0	0	0	10
Group 16	Wolfgang Müller	1275	10	0	0	0	0	0	10
Group 17	Benjamin La	2456	16	0	0	0	0	0	10
Group 18	Constantin Kall	1670	11	0	0	0	0	0	10
Group 19	Ulfen Kall	1460	11	0	0	0	0	0	10
Group 20	Andi Wüchters	574	1	0	0	0	0	0	10
Group 21	Wolfgang Müller	1275	10	0	0	0	0	0	10
Group 22	Benjamin La	2456	16	0	0	0	0	0	10
Group 23	Constantin Kall	1670	11	0	0	0	0	0	10
Group 24	Ulfen Kall	1460	11	0	0	0	0	0	10
Group 25	Andi Wüchters	574	1	0	0	0	0	0	10
Group 26	Wolfgang Müller	1275	10	0	0	0	0	0	10
Group 27	Benjamin La	2456	16	0	0	0	0	0	10
Group 28	Constantin Kall	1670	11	0	0	0	0	0	10
Group 29	Ulfen Kall	1460	11	0	0	0	0	0	10
Group 30	Andi Wüchters	574	1	0	0	0	0	0	10



Jordan Opportunity for Virtual Innovative Teaching And Learning (JOVITAL)

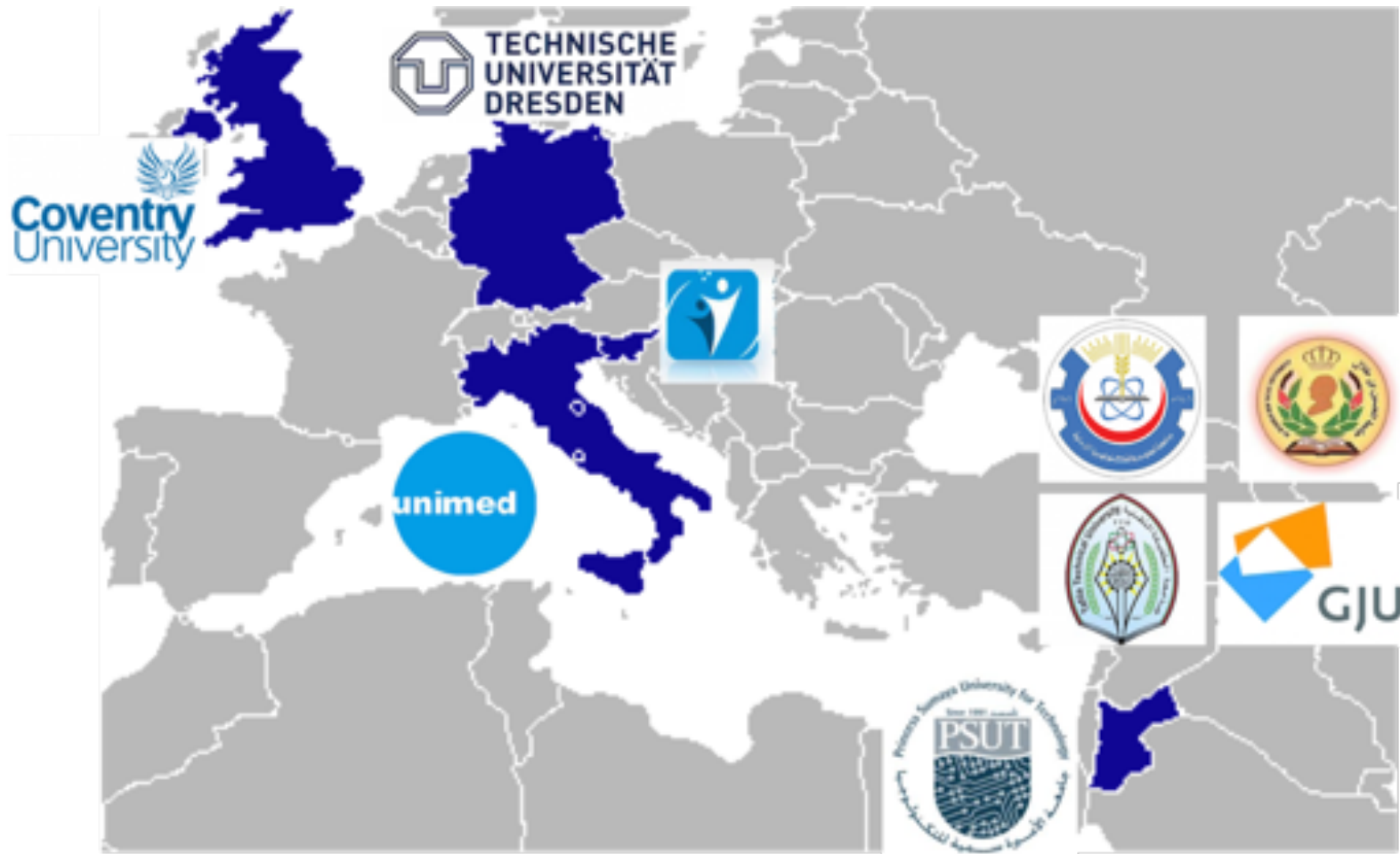
Problem

Limited interactive teaching and physical academic mobility at Jordanian HEIs

Solution

Introducing problem-based learner-centred teaching and learning practices founded on constructivist and connectivist theories and facilitated by digital social interaction tools

Jordan Opportunity for Virtual Innovative Teaching And Learning (JOVITAL)





Thank you!