

EuroFM Meeting Wädenswil 7th February 2013



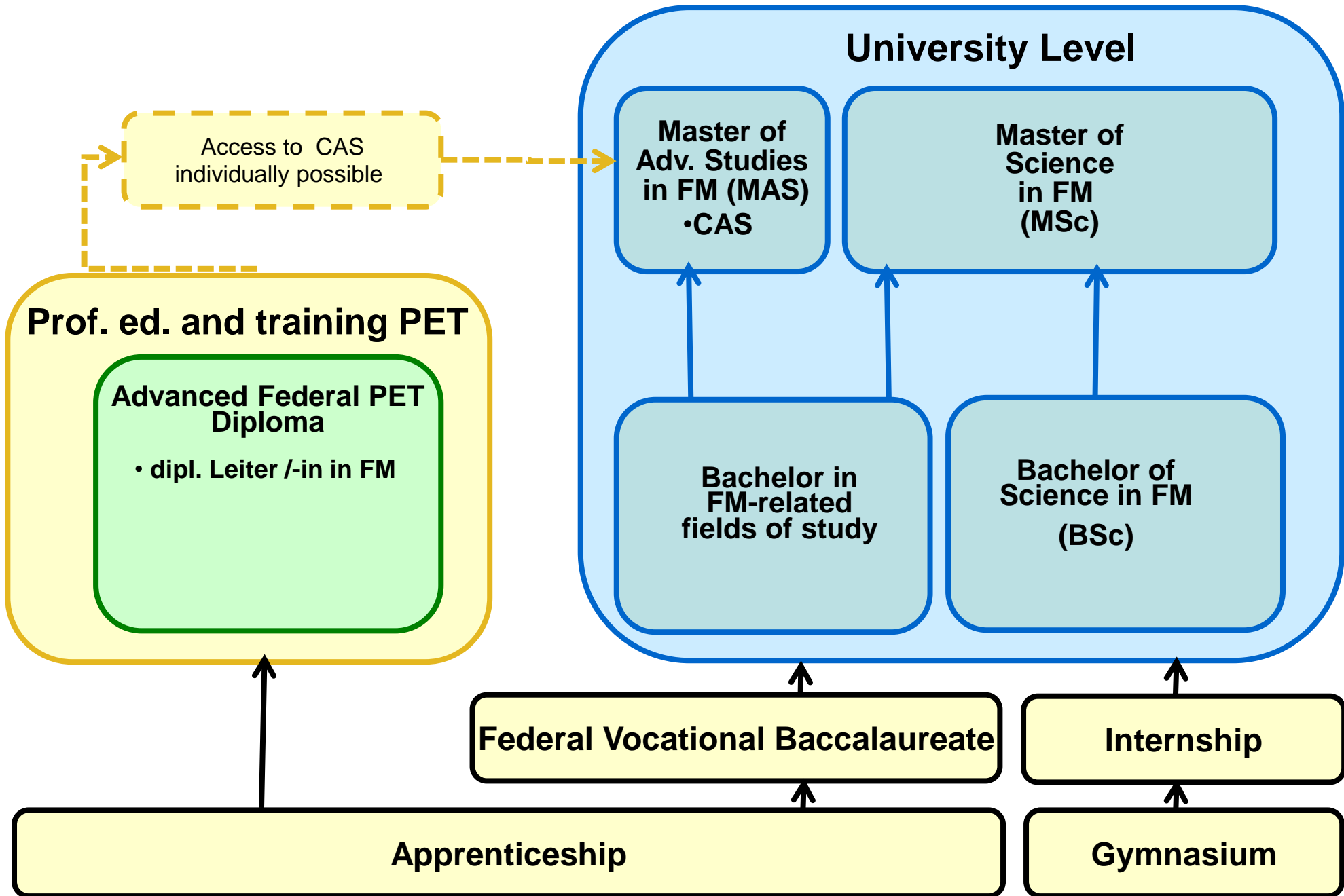
FM-Education in Switzerland

- Are there national characteristics in FM education in Switzerland?
- What are the first experiences of the internationally oriented MSc in FM course?

Anna Heijkoop, Simon Ashworth, MSc in FM Stud.

Prof. Dr. Christian Coenen, Prof. Thomas Wehrmüller

FM-Education Switzerland



Wädenswil's understanding of FM

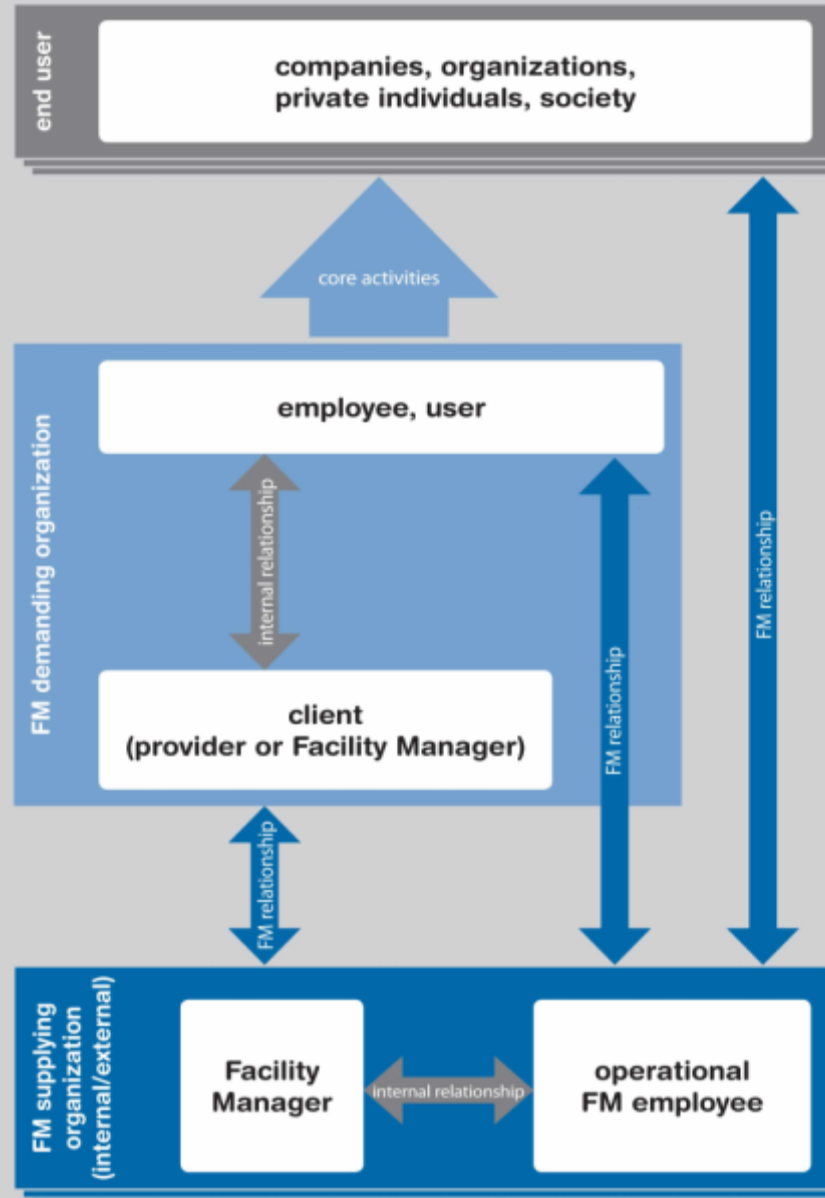
In line with the European norms (EN 15221-1 SN), the Institute of FM at the ZHAW Wädenswil understands Facility Management (FM) to mean the planning, implementation and management of measures to support the main activities of an organization. Facility Management (FM) provides facilities and infrastructure and offers services for the organization and for individuals.

The Wädenswiler Model of FM relationships considers relationships between:

- FM providers and organizations as FM service consumers (B2B)
- FM providers and end customers (B2C)

It focuses on the needs of the client, the user and the customer. Facility Management should create economic, ecological and social value and take health issues into account. This holistic view includes the entire real estate life cycle.

Wädenswil's model of FM relationships

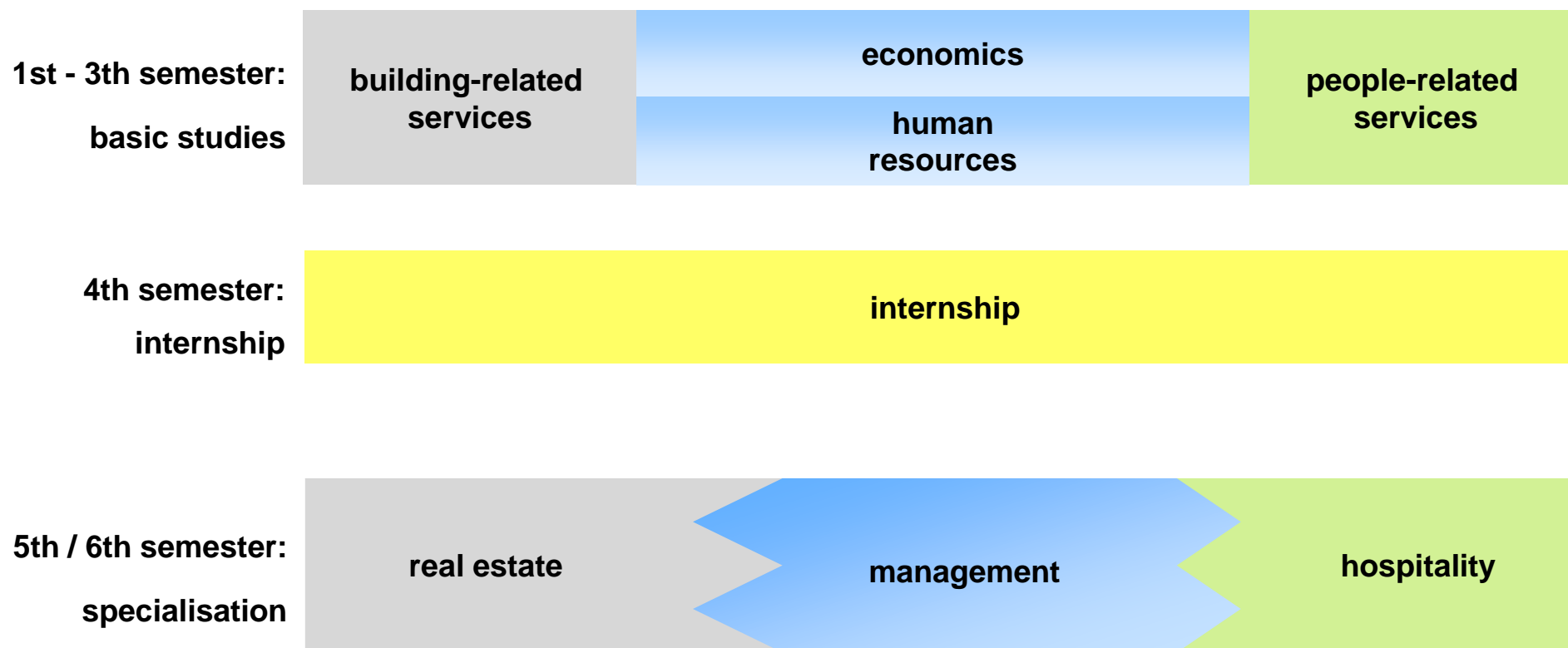


→ relationships related to core activities ↔ relationships related to the Facility Management ↔ relationships related to internal processes

Bachelor of Science in Facility Management

- title: Bachelor of Science ZFH in Facility Management
- carries 180 ECTS points (Bachelor's thesis: 10 ECTS points)
- duration: full-time → 6 semesters
 part-time → 10 semesters

Overview BSc in FM: 6 semesters

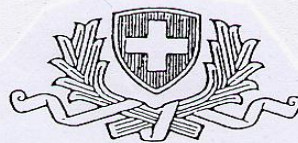


Bachelor in FM

- FM12: 70
- FM11: 89
- FM10: 70
- FM09: 60
- FM08: 45

Total: ca. 250





DER SCHWEIZERISCHE BUNDES RAT

in Erwägung

dass sich der Studiengang Ökotrophologie von den Inhalten her stärker auf die strategische Führung und das umfassende Management von Dienstleistungen in Gebäuden ausrichtet und die Eidgenössische Fachhochschulkommission dem Antrag auf Umbenennung des Studiengangs Ökotrophologie in Facility Management zustimmt,

verfügt:

Der Studiengang Ökotrophologie an der Hochschule Wädenswil wird in Facility Management umbenannt.

3003 Bern, 3. Juli 2001

Mit freundlichen Grüssen

Im Namen des Schweizerischen Bundesrates

Der Bundespräsident:

Moritz Leuenberger

Die Bundeskanzlerin:

Annemarie Huber-Hotz

Points of reference for the Development of FM

Concerning requirements and study models

Great Britain

The Netherlands

Competencies Profile

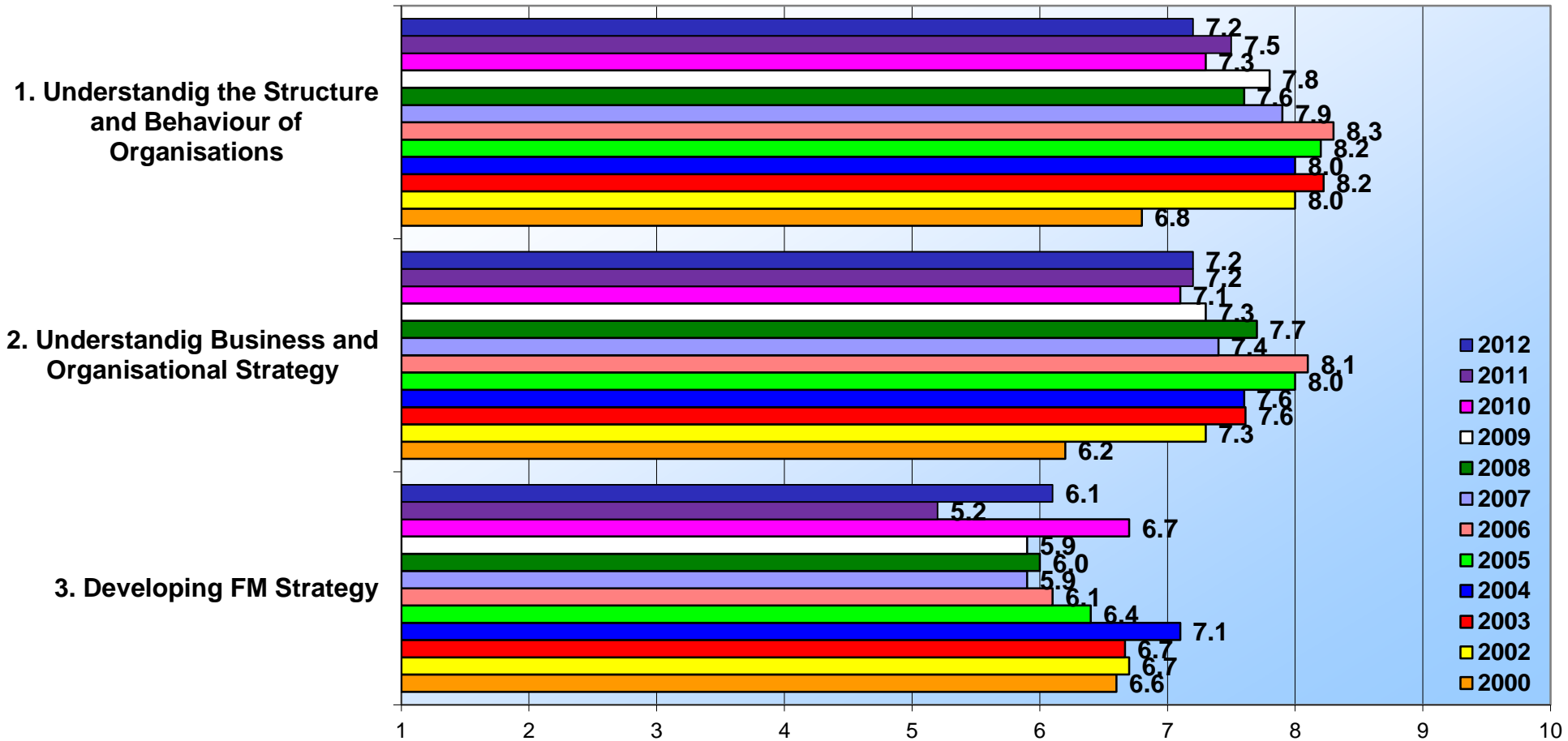
BIFM Competencies

- Understanding Business Organisation
- Managing People
- Managing Premises
- Managing Services
- Managing the Working Environment
- Managing Resources

Understanding Business Organisation

Self-assessment of courses BSc in Facility Management 2000 (N=17), 2002 (N=12), 2003 (N=21), 2004 (N=24), 2005 (N=20), 2006 (N=39), 2007 (N=38), 2008 (N=46), 2009 (N=39), 2010 (N=33), 2011 (N=31) and 2012 (N=33)

Question: "How do I feel at the end of course", Answer options: 1 (incompetent) to 10 (very competent)*



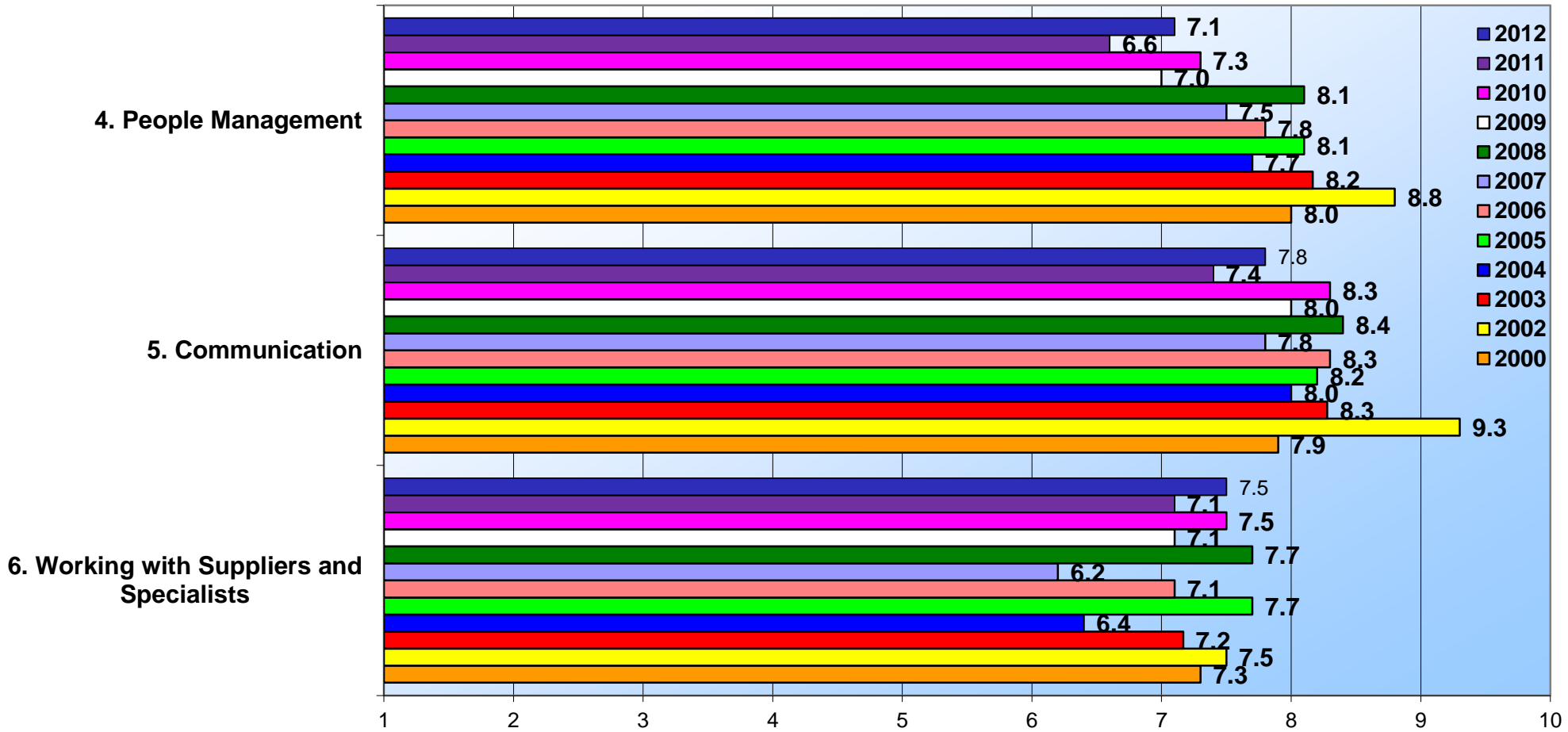
*Survey criteria were the BIFM competences Profile

1 = incompetent, 10 = very competent

Managing People

Self-assessment of courses BSc in Facility Management 2000 (N=17), 2002 (N=12), 2003 (N=21), 2004 (N=24), 2005 (N=20), 2006 (N=39), 2007 (N=38), 2008 (N=46), 2009 (N=39), 2010 (N=33), 2011 (N=31) and 2012 (N=33)

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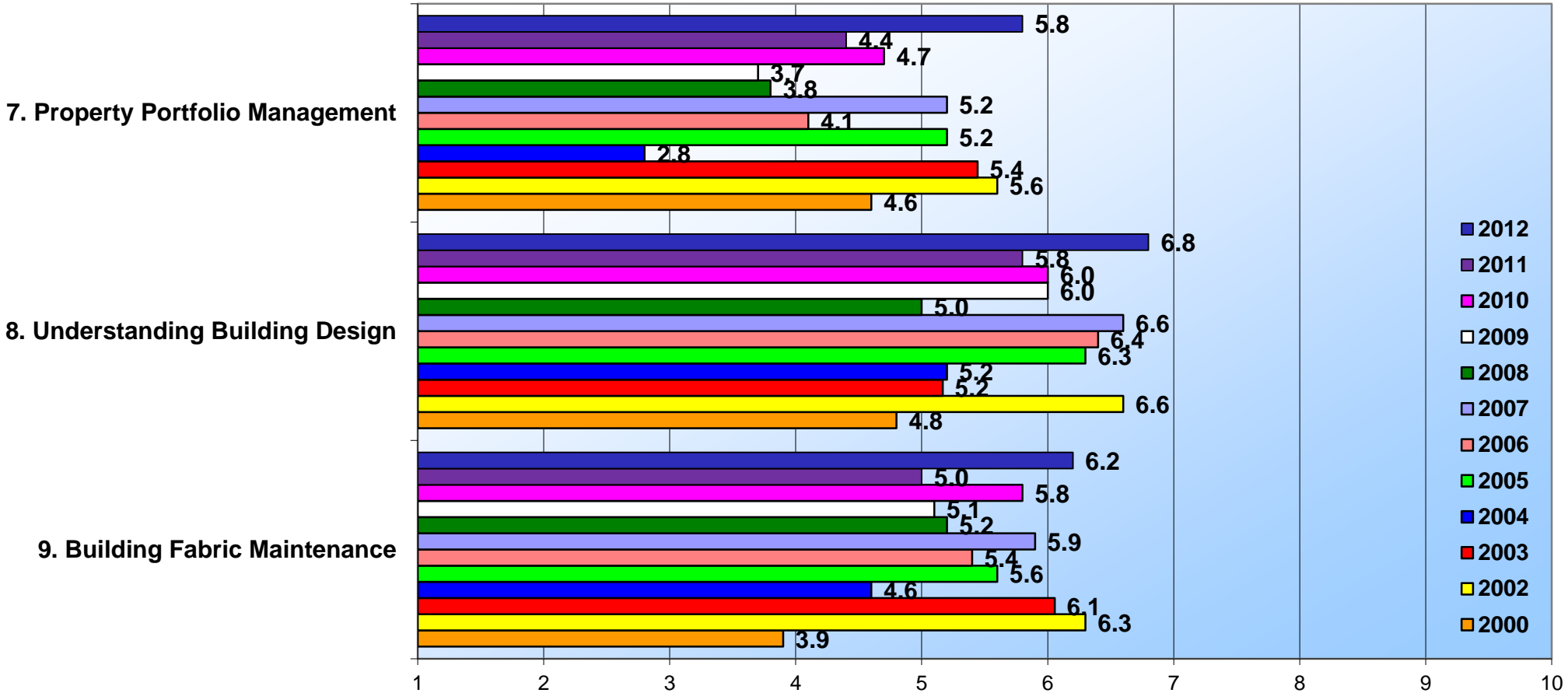
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Managing Premises

Self-assessment of courses BSc in Facility Management 2000 (N=17), 2002 (N=12), 2003 (N=21), 2004 (N=24), 2005 (N=20), 2006 (N=39), 2007 (N=38), 2008 (N=46), 2009 (N=39), 2010 (N=33), 2011 (N=31) and 2012 (N=33)

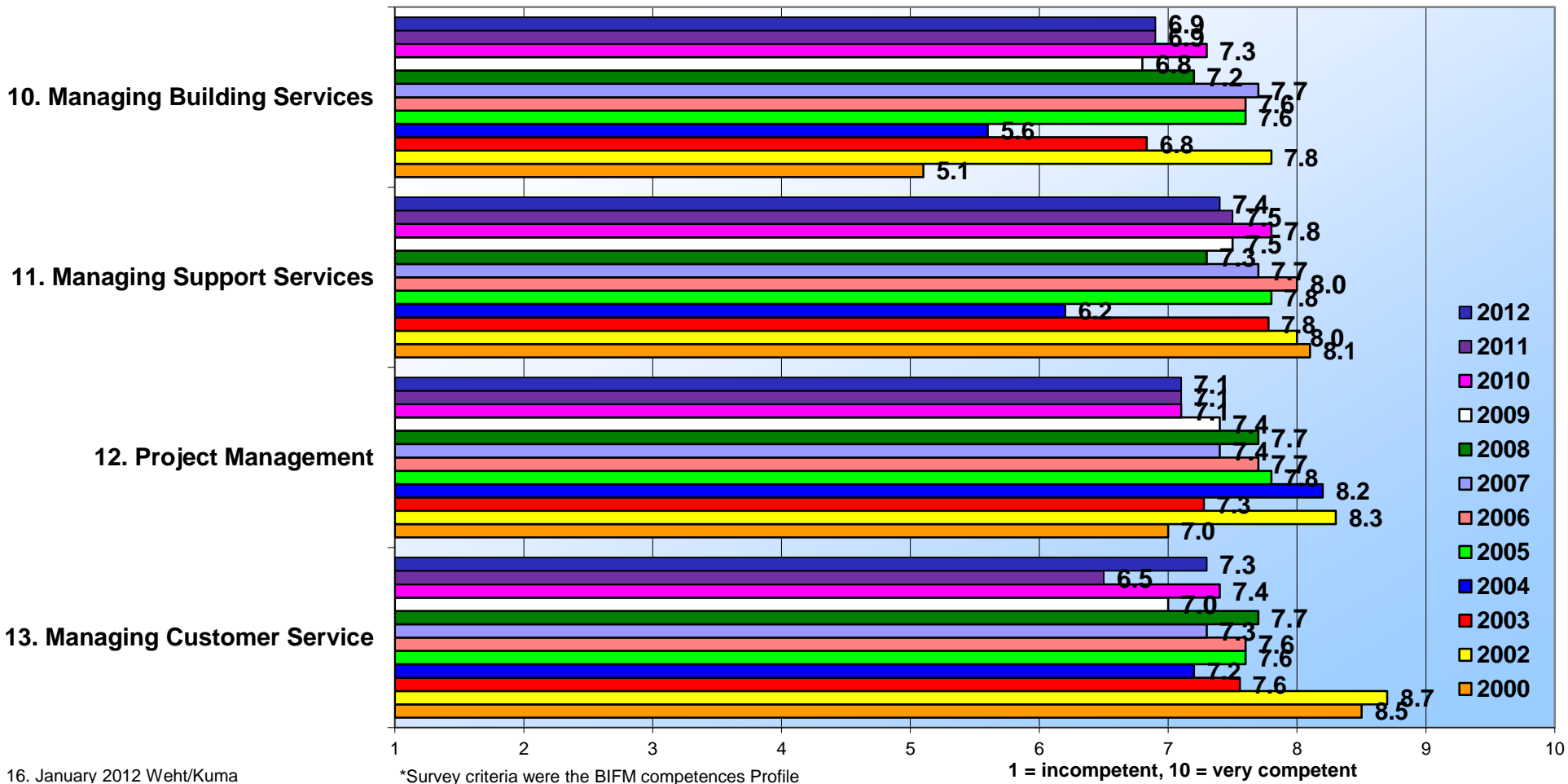
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Managing Services

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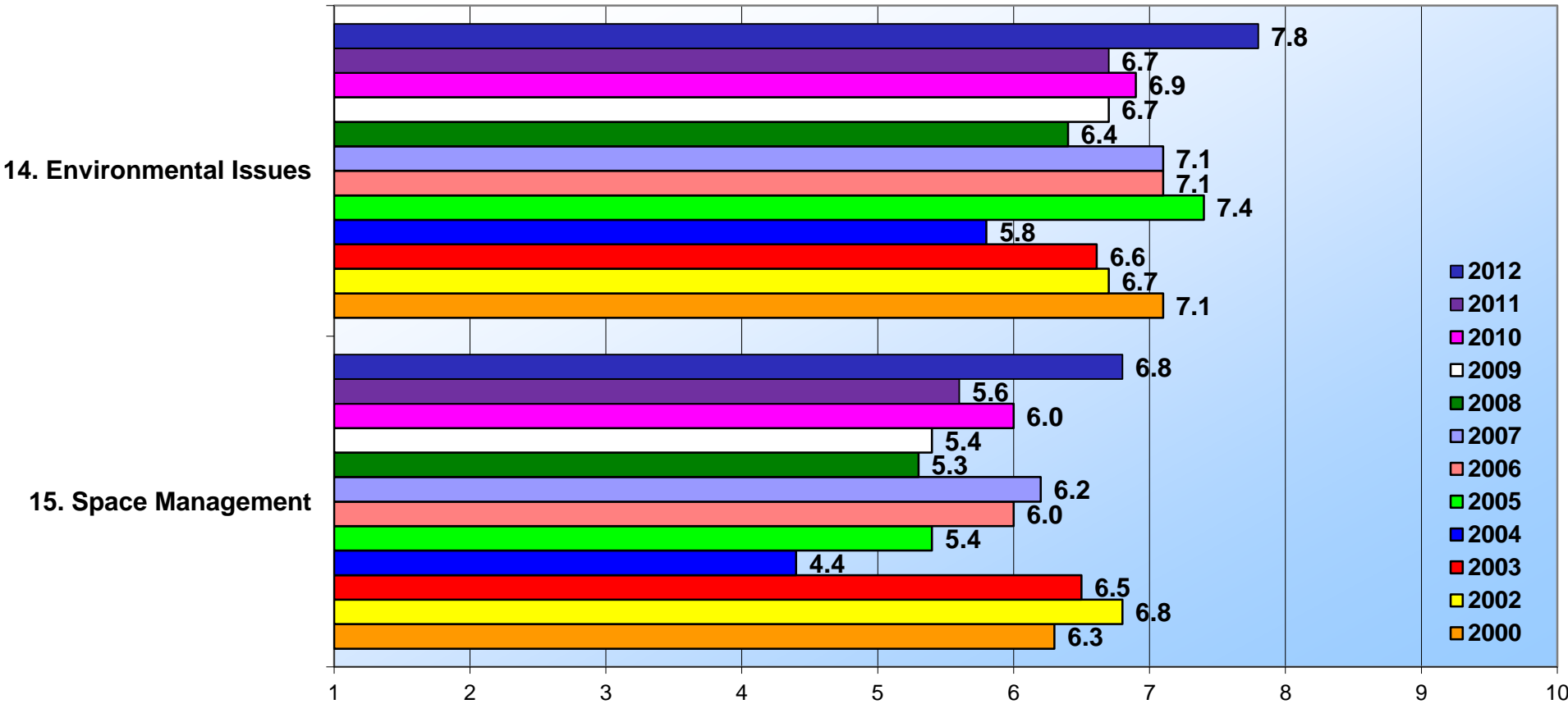
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Managing the Working Environment

Self-assessment of courses BSc in Facility Management 2000 (N=17), 2002 (N=12), 2003 (N=21), 2004 (N=24), 2005 (N=20), 2006 (N=39), 2007 (N=38), 2008 (N=46), 2009 (N=39), 2010 (N=33), 2011 (N=31) and 2012 (N=33)

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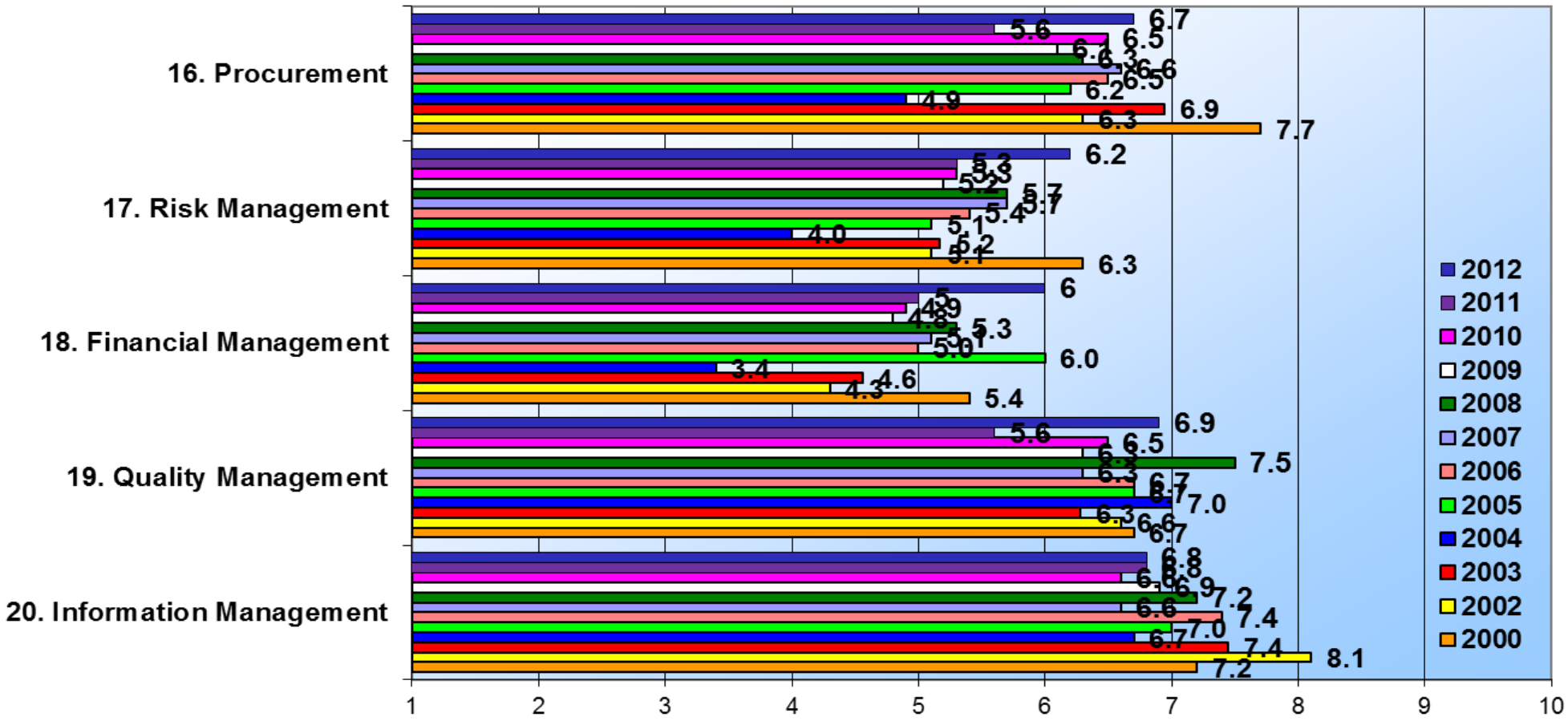
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Managing Resources

Self-assessment of courses BSc in Facility Management 2000 (N=17), 2002 (N=12), 2003 (N=21), 2004 (N=24), 2005 (N=20), 2006 (N=39), 2007 (N=38), 2008 (N=46), 2009 (N=39), 2010 (N=33), 2011 (N=31) and 2012 (N=33)

Question: "How do I feel at the end of course", Answer options: 1 (incompetent) to 10 (very competent)



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Further Education in Zurich Technopark

Zürcher Hochschule
für Angewandte Wissenschaften



Life Sciences und
Facility Management

Weiterbildung am Institut für Facility Management

Master of Advanced Studies
Diploma of Advanced Studies
Certificate of Advanced Studies
Weiterbildungskurse

Durchführungsort Zürich

Certificate of Advanced Studies (CAS)

CAS Leadership

CAS Oekonomie und Prozesse

CAS Service Management

CAS Immobilienökonomie

CAS Gebäudemanagement

CAS Workplace Management

CAS Life Cycle Management Immobilien

CAS Energiemanagement

- 10 ECTS
- CHF 6900

Master of Advanced Studies (MAS)

CAS 1

CAS 2

CAS 3

CAS 4

CAS Strategisches Facility Management

Master Thesis

Master of Advanced Studies MAS in FM

Graduates

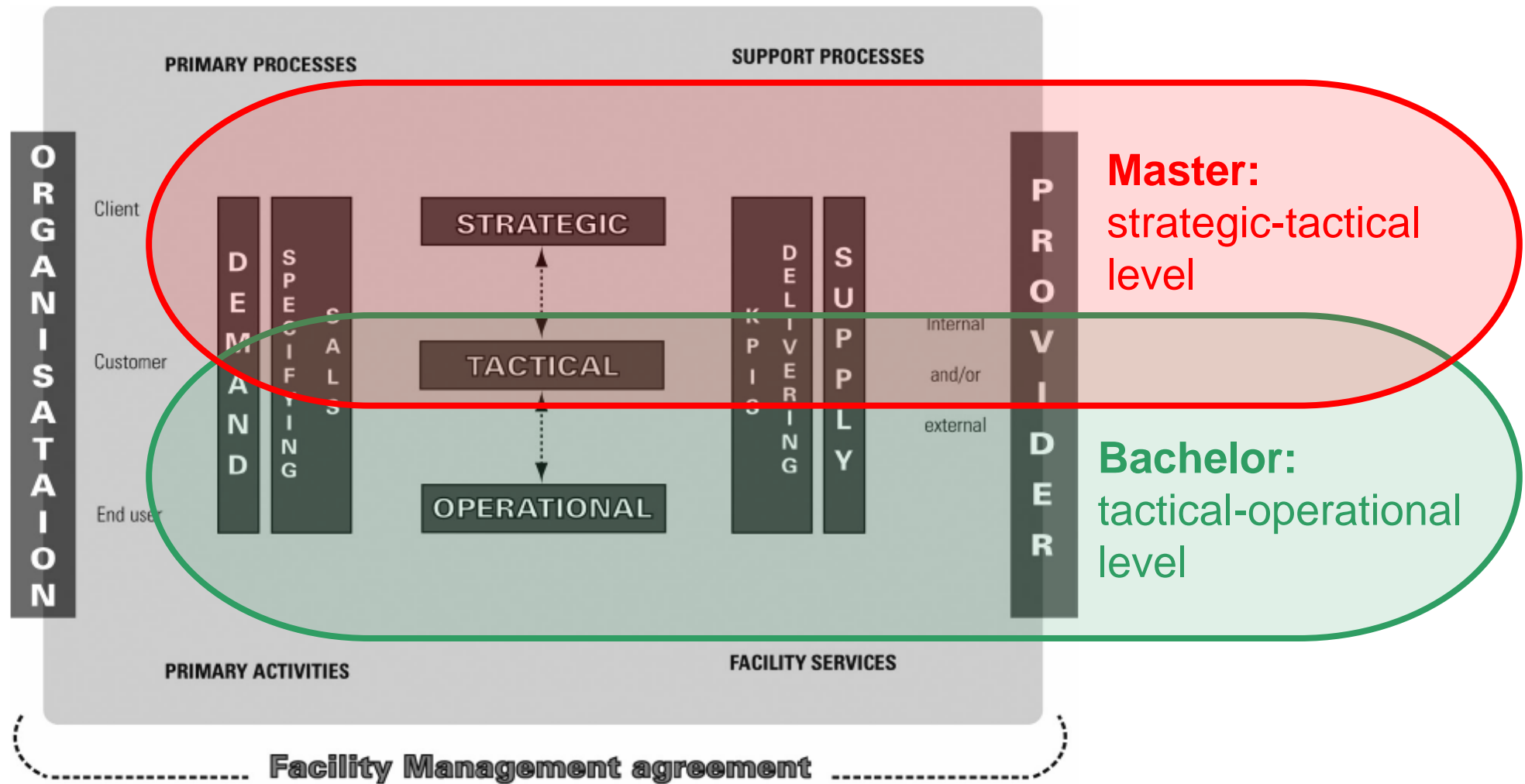
2008	31
2009	18
2010	20
2011	12
2012	17

IFMA Accreditation

- Since 2000 for BSc and MAS: IFMA Switzerland
- Application for IFMA Foundation Accreditation for BSc, MSc and MAS in FM (Site Visit March 2013)

Master of Science in Facility Management

Career Prospects: Fields of work (shown in FM-model of EN 15221-1:2006)



ZHAW / Institute of Facility Management Master Excellence Team



External members

- Prof. K. Alexander, Manchester
- Prof. Dr. habil. M. May, HTW Berlin
- Prof. em ETH Dr. H.R. Schalcher

ZHAW internal members

- I. Arnold
- Prof. Dr. Ch. Coenen
- S. Hofer
- Prof. M. Hubbuch
- Prof. Dr. S. Jäschke
- Dr. S. Jäschke
- Dr. S. Sesboüé
- Dr. F. Wadenpohl
- Prof. T. Wehrmüller
- Prof. L. Windlinger

Master of Science in Facility Management

MSc in FM in a nutshell

- consecutive Master of Science in Facility Management
- Internationally oriented, courses held mainly in English (Level C1)
- based on the Bachelor's degree in FM or similar qualification (business admin., hotel management, civil engineering, architecture etc.)
- combines scientific expertise with management orientation
- prepares technical and managerial staff for positions in the middle and upper management of this rapidly growing industry

Master of Science in Facility Management

MSc in FM in a nutshell

- start of the next course: September 2013
- costs/fees: regular semester fees
- carries 90 ECTS points (Master's thesis: 30 ECTS points)
- full-time study 3 semesters
part-time study 5 semesters
 - (sem. 1 & 2: Wed. & Thurs., sem. 3,4 & 5: Mond. & Tue.)

Courses

- Scientific Methods
- Business Skills
- Systems Engineering and Project Management
- Leadership in Change Management
- Facility Management and Sustainability
- Managing Property / Workplace / Services
- Understanding Organisations
- International Facility Management
- Specific FM aspects (Electives)
- Case Studies

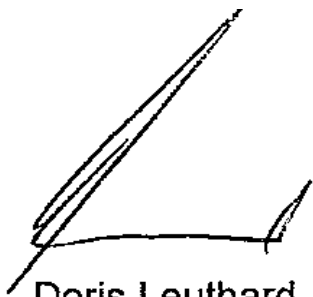
Master of Science in Facility Management

Master Thesis

- individual scientific work
- applying the skills and knowledge acquired during the study programme to specific research questions
- topics can either be chosen:
 - out of the research context of the ZHAW (students own / individual choice or within a research project of the IFM) **or**
 - practice based (topic given by employer or by a company approaching the IFM)
- research plan spring semester
- written mainly in the fall semester, in German or English

MSc in FM: approved by the Swiss Government

«Die ZFH bietet als einzige Fachhochschule Facility Management an und führt das einzige Forschungszentrum in der Schweiz (Institut für Facility Management). Die Forschungsfelder sind auf Energy Management, Workplacemanagement, Facility Management in Health Care und Consumer Facility Management fokussiert und dem Leitprinzip der Nachhaltigkeit unterstellt. Der Masterstudiengang erfüllt die qualitativen Anforderungen der Fachhochschulmastervereinbarung an einen Forschungsschwerpunkt von mindestens nationaler Bedeutung»...



Doris Leuthard
Bundesrätin

(Auszüge aus der Verfügung des Eidgenössischen Volkswirtschaftsdepartementes EVD zur Bewilligung des MSc in FM vom 15.12.2009)

MSc in FM: approved by the Swiss Government

...

In Switzerland, the ZHAW is the only University of Applied Sciences offering Facility Management courses and as well as a research centre (Institute of Facility Management). Research is focused on Energy Management, Workplace Management, Facility Management in Health Care and Consumer Facility Management and is placed under the guiding principle of sustainability. The master's program meets the quality requirements of the university master agreement on specific research focus of national importance.

...



7th Feb – Euro FM

Input from Simon

MSc – Students Perspective

What appeals about the MSc in Switzerland:

- International and culturally diverse
- Excellence - Setting of high standards
- Focus on management strategy
- Base arguments through scientific research
- Practical and applicable in the real world
- Active involvement with FM organizations
- Use of FM process models, Norms and standards
- local Swiss FM market and wider international Trends

MSc – Practical Applications

- Support Corporate management teams:
 - Strategy, Processes, Efficiency Targets, CI
- Deliver business benefits:
 - Align FM/RE Strategy with Vision, Mission and objectives
 - Review and improve Management Processes
 - Identify and realize cost savings
 - Working FM concepts and solutions
 - ZHAW research opportunities with business
 - Develop relationships – business and academia

Benefits - Academia & Industry

- Meets Industry needs for highly qualified and competent graduates
- Student Opportunities for Top Jobs
- Bring Research into Business
- Develop research programs in practice
- Good for the future of FM

7th Feb – Euro FM

Input from Anna

Why M.Sc. In FM at ZHAW, Wädenswil

- Personal background in FM
- Personal background in Switzerland
 - Family
 - Internship
- No comparable options in the Netherlands
- Added value of M.Sc. over BBA

First impressions

- Learn new subject of scientific research
- Good transfer from Bachelor to Master
- Freedom to explore subjects of own interest
- Going into the field with case studies & international exchange
- Getting to know FM in Switzerland
- Lots of inputs and helping hands from staff to develop on personal & professional level
- Interactive, co-creation of educational program