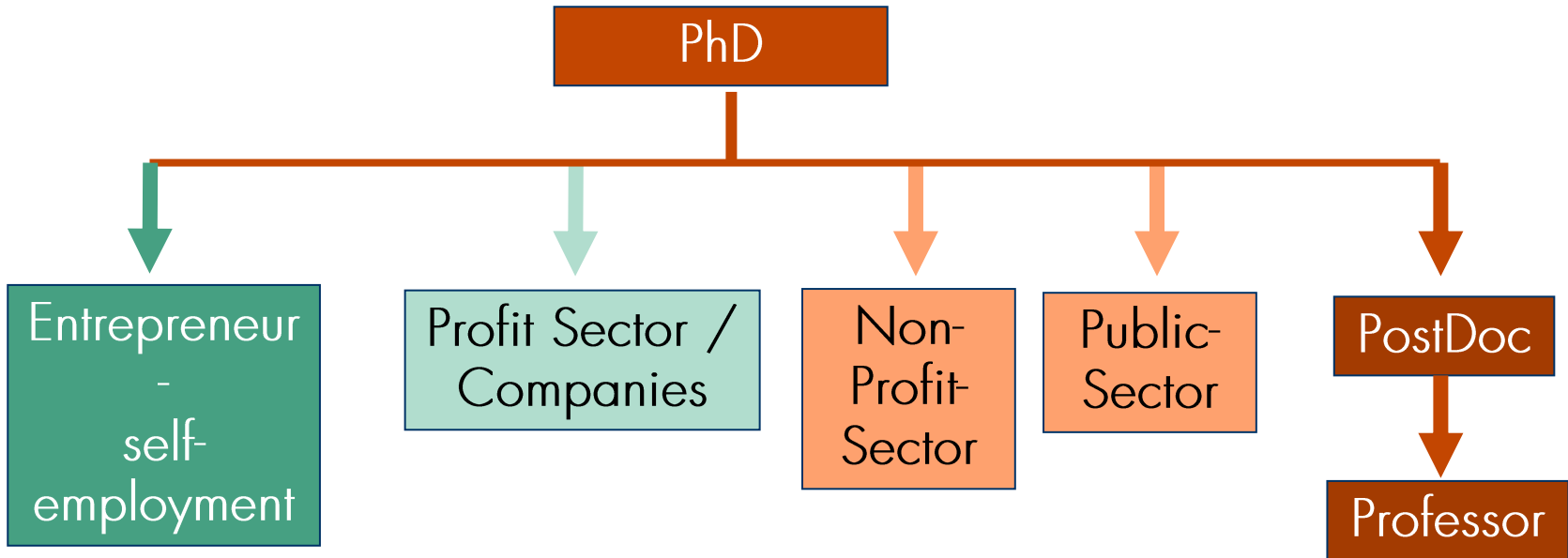


ALTERNATIVES TO A CAREER IN SCIENCE

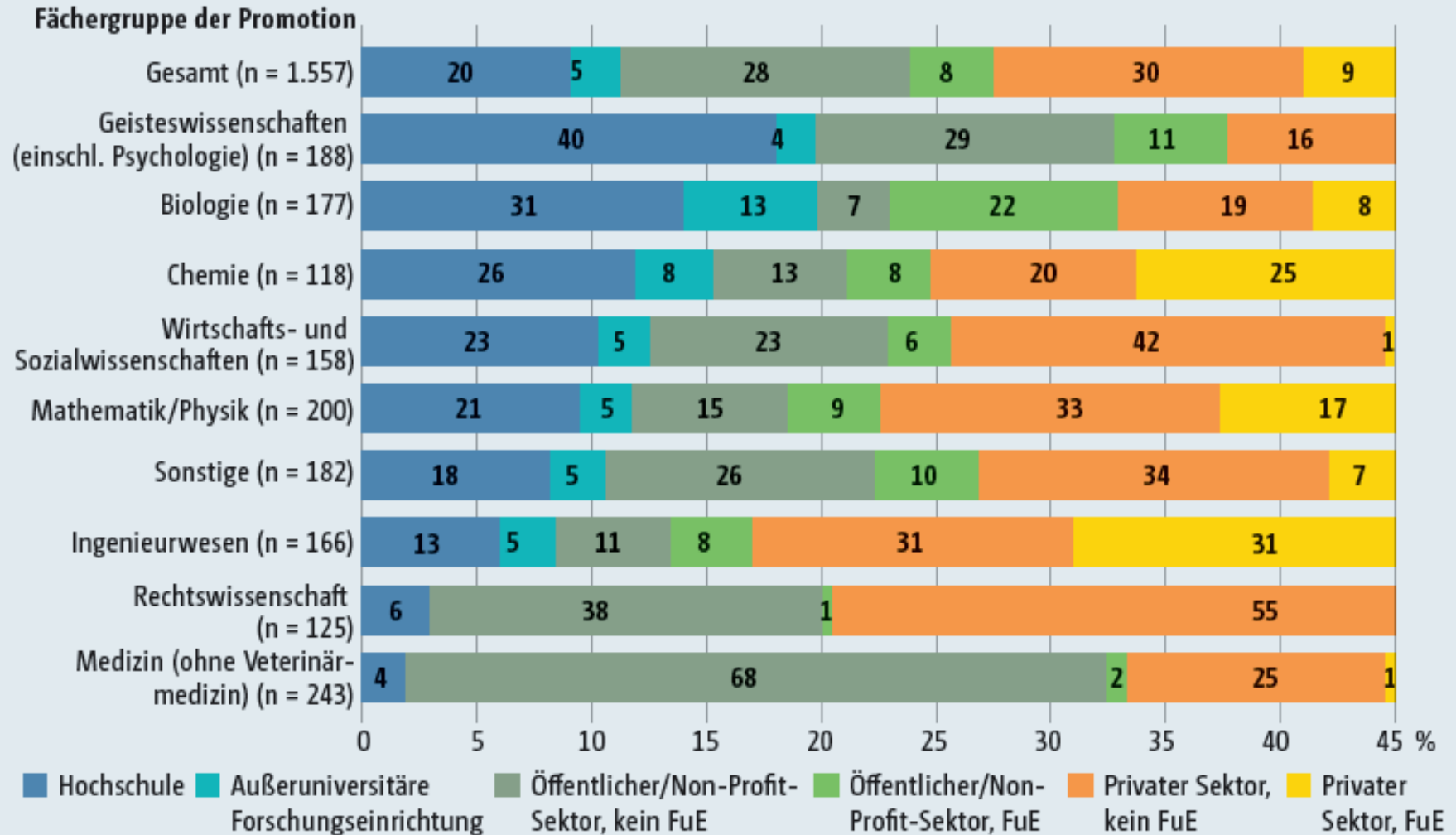
STRUCTURE OF THE TALK

- I. General Options
- II. Expectations & goals of employers
- III. Expectations & goals of the applicant
 - How to assess the best strategy for yourself
- IV. Questions and Answers

GENERAL OPTIONS

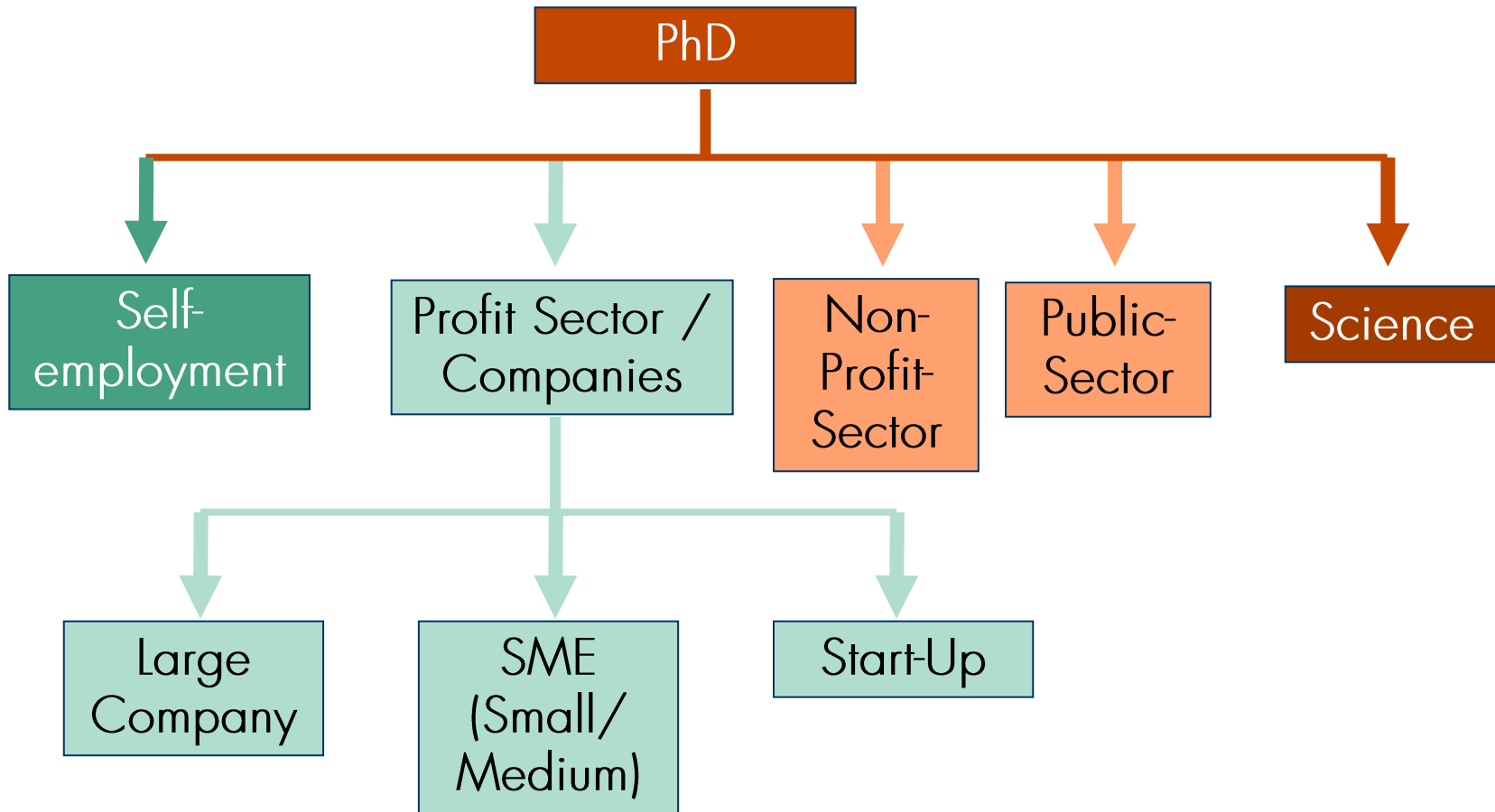


1,5 YEARS AFTER PhD



Quelle: KOAB-Absolventenstudien 2011 von Promovierten des Jahrgangs 2009; INCHER-Kassel (unveröffentlichte Daten)

CAREER IN A COMPANY



CAREER IN LARGER COMPANIES

Credits to Barbara Hoffmann, KEPOS GmbH

R&D / Prod. Dev. / Production / Quality M / Mark./Sales. / After Sales

Projectmanagement

Public Relation, Investor Relation

Business Development, Business Strategy

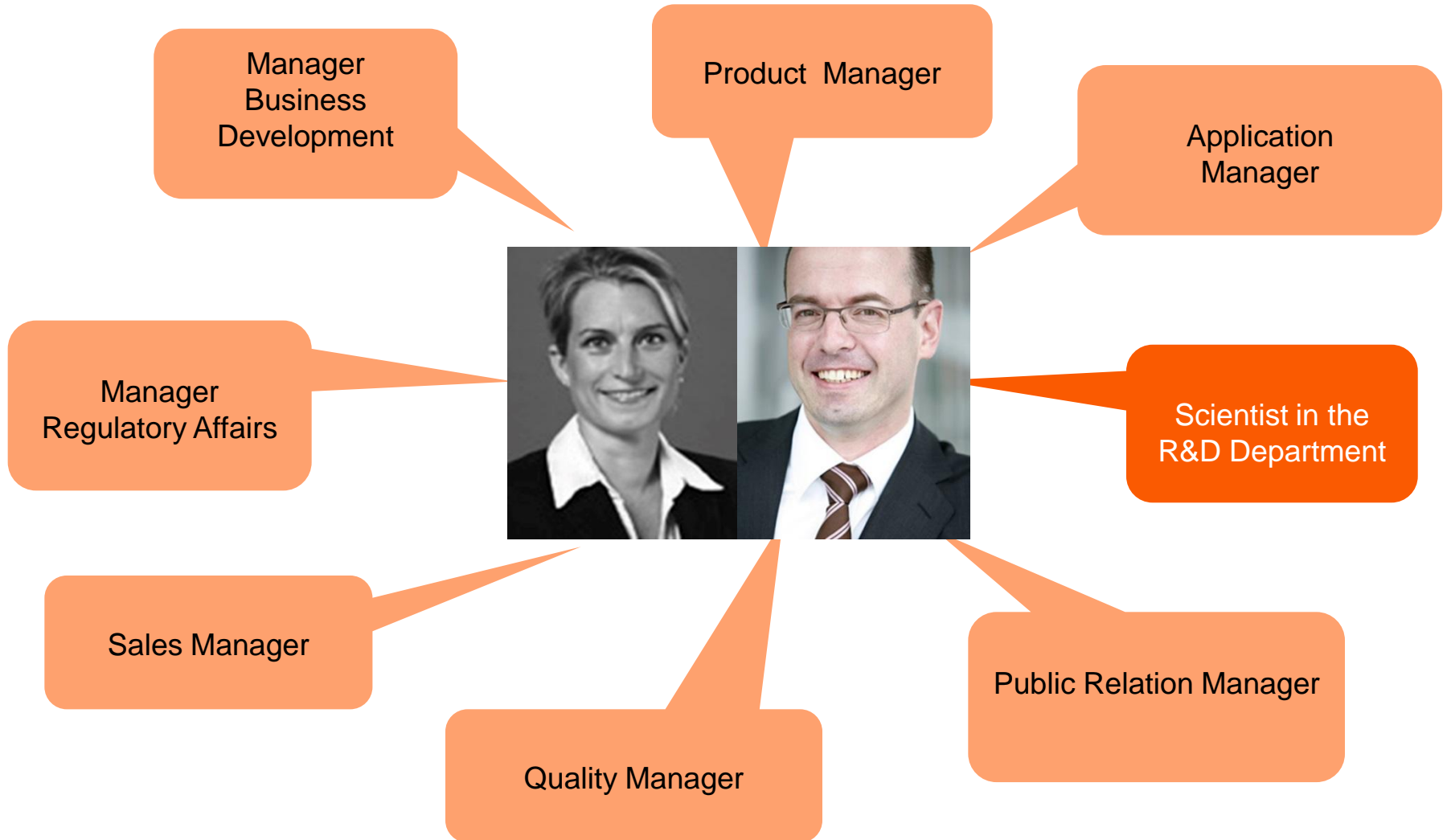
Human Resources Management

IT Department

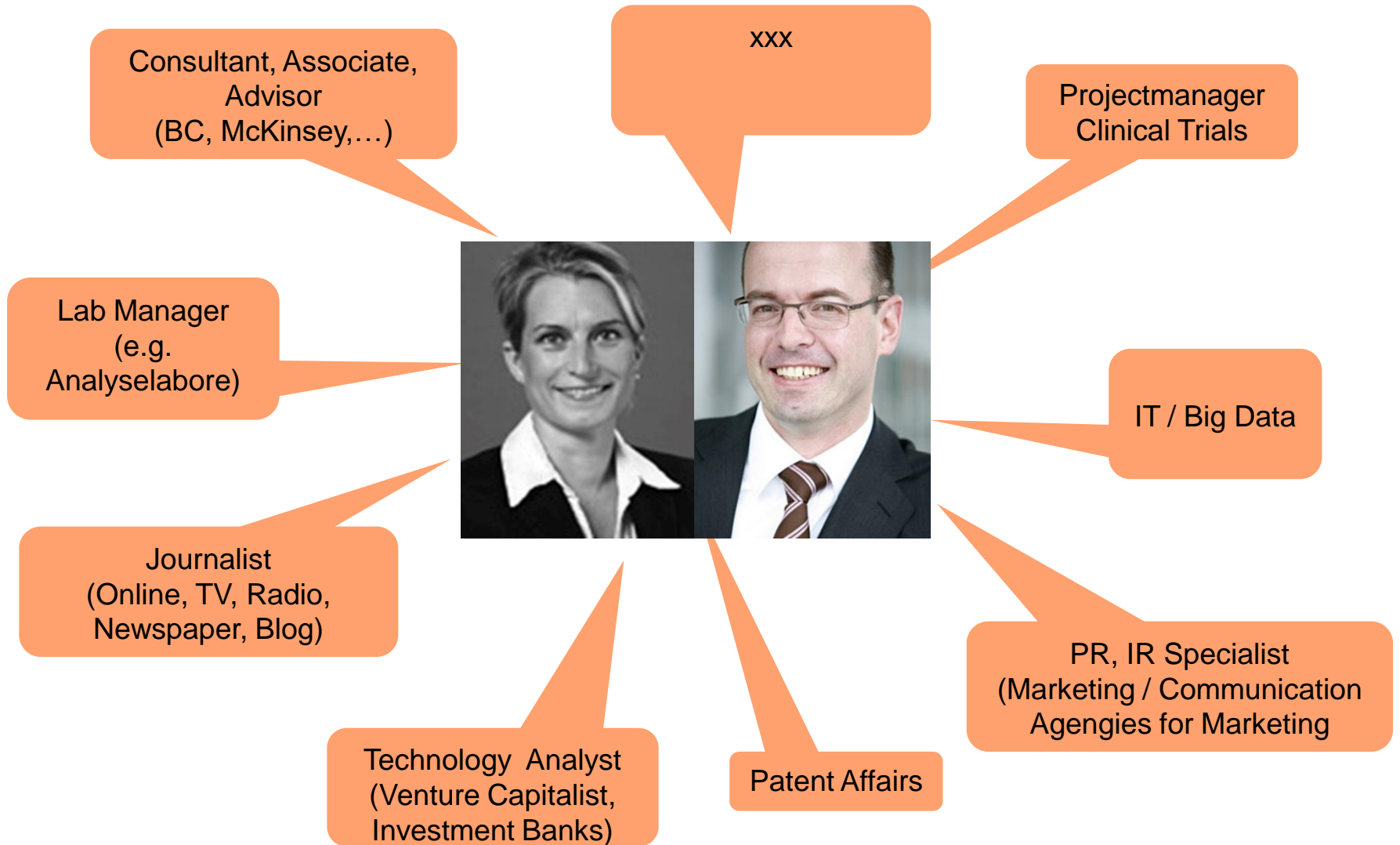
Financial Department

Legal/IP Department (Regulatory Affairs)

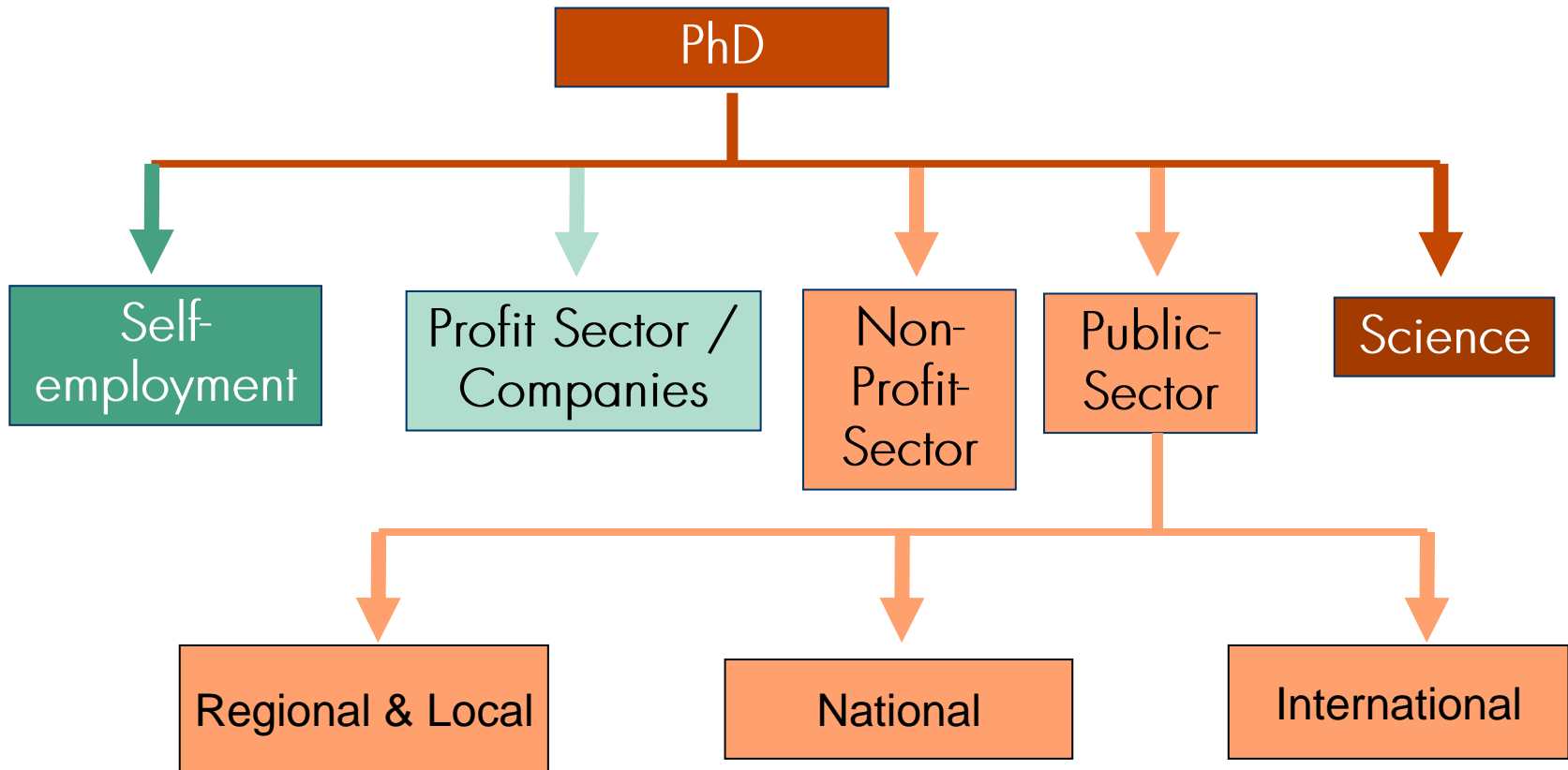
JOB EXAMPLES IN INDUSTRY



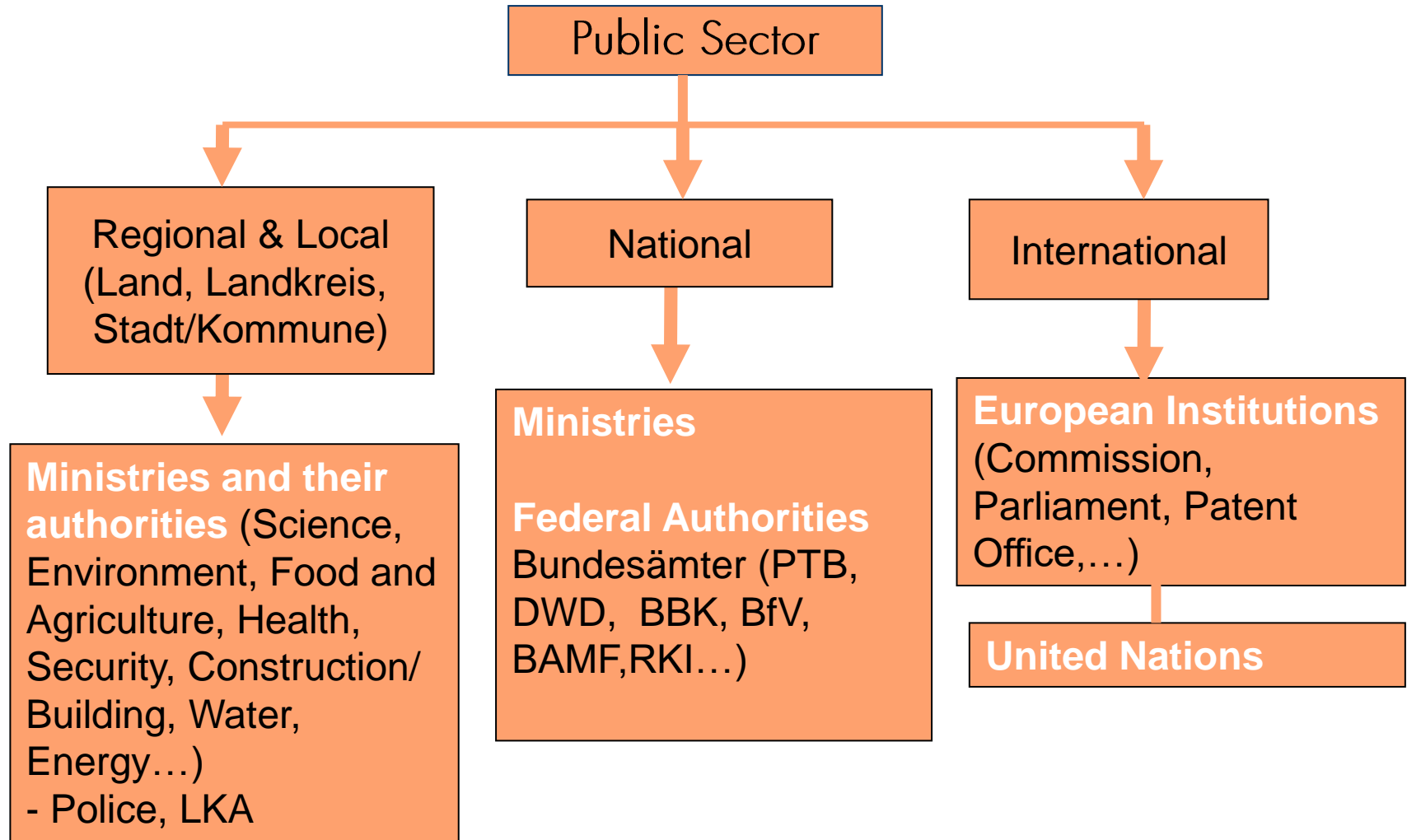
JOB EXAMPLES IN THE SERVICE SECTOR



CAREER IN THE PUBLIC SECTOR



CAREER IN THE PUBLIC SECTOR



CAREER IN THE PUBLIC SECTOR

Parl. Staatssekretär Stefan Müller 5700 (5701)		Persönlicher Referent RD Dr. Bernd Rupprecht 5702 (5703)		Büro St'in Q-T Dr. Maximilian Müller-Härlin 5021 (5033)		Staatssekretärin Cornelia Quennet-Thielen Geschäftsbereich: 2, 12, 3 und 4 5030 (5032)		IR * Innere Revision N.N.		Staatssekretär Dr. Georg Schütte Geschäftsbereich: 11, 2, 5, 6 und 7 2020 (2023)		Persönliche Referentin RD'in Dr. Andrea Fischer 3842 (3024)		Parl. Staatssekretär Thomas Rachel 5020 (5022)	
Z Zentralabteilung		1 * Grundsatzfragen; Strategie; Digitaler Wandel		2 Europäische und Internationale Zusammenarbeit im Bildung und Forschung		3 Berufliche Bildung; Lebenslanges Lernen		4 Wissenschaftssystem		5 Schlüsseltechnologien – Forschung für Innovationen		6 * Lebenswissenschaften – Forschung für Gesundheit		7 Zukunftsvorschau – Forschung für Grundlagen und Nachhaltigkeit	
Min/Dir Günther Benz 2151 (2019)		Min/Dir Matthias Graf von Kleinsmagg 5665 (5182)		Min/Dir Vollert Biske 2874 (2875)		Kornelia Haug 2002/5200 (2004)		Ulrich Schüller 3238 (1382)		Min/Dir Prof. Dr. Wolf-Dieter Lukas 3631 (3634)		Min/Dir Barbel Branne-Bothe 5105/2006 (5102)		Min/Dir Dr. Karl Eugen Huthmacher 2317 (2288)	
Z1 Personal, Organisation, Infrastruktur, Förderverfahren Min/Dirig Dr. Jochen Zächgo 3005 (2380)	Z2 Haushalt, Controlling, Informationstechnik Min/Dirig Norbert Klein Arndt 3227 (2873)	11 * Grundsatzfragen; Innovation Min/Dirig Engelbert Beyer 5080 (5081)	12 * Strategie; Digitaler Wandel Min/Dirig Dr. Stefan Lötter 5246 (5040)	21 Internationales Min/Dir Fritzhof A. Maennel 3100 (3101)	22 Europa Susanne Burger 3814 (2851)	31 Berufliche Bildung Min/Dirig Thomas Sandorinann 5221 (5222)	32 * Lebenslanges Lernen, Bildungsplanung Min/Dirig Dr. Thomas Geiner 5221 (5222)	41 * Hochschulen Min/Dirig Peter Gießler 5016 (5015)	42 Forschungs- organisationen N.N.	51 Schlüsseltechnologien für Wachstum Min/Dirig Dr. Herbert Zeisel 3192 (2325)	52 Innovation im Dienste der Gesellschaft Dr. Christine Thomas 3341 (3339)	61 Min/Dirig/in Petra Steiner-Hoffmann 5104 (5103)	71 Dr. Beatrix Vierkom-Rudolph 2174 (3633)	72 Min/Dirig Wilfried Kraus 3390 (3391)	
Personal, Personal- entwicklung Min/Dir Jürgen Mennecker	Z21 Haushalt Min/Dir Dr. Leo Felix Lee 2014	111 * Grundsatzfragen der Innovationspolitik Min/Dir Dr. Guela Philippenburg 5177	121 * Strategie Min/Dir Thomas Klubertz 5297	211 Grundsatzfragen, Internationale Min/Dir Harald Lischka 2033	221 Übergreifende Fragen und Min/Dir Andreas Drechsler 2109	311 Grundsatzfragen der beruflichen Aus- und Min/Dir Peter Thiele 2126	321 * Grundsatzfragen; Lebenslanges Lernen RD'in Dr. Dorothea Harenberg 5401	411 * Hochschulpolitik und- Min/Dir Andreas Spelberg 5134 Min/Dir Dr. Gaby Gutmann 5009	421 Grundsatzfragen des Wissenschaftssystems; Min/Dirin Susanne Clobes 2806	511 Neue Materialien und Min/Dirin Liane Horst 2189 RD Dr. Peter Siroth 2251	521 * Schlüsseltechnologien; Min/Dir Dr. Ramona Korte 5754	611 * Strategie und Grund- Min/Dirin Katrin Benninghoff 5207	711 Naturwissenschaftliche Min/Dirin Dr. Heike Prasse 3321	721 Grundsatzfragen Min/Dir Dr. Volkmar Dietz 3445	
Z11 Personal Min/Dir Jürgen Mennecker 3800	Z22 Informationstechnik Min/Dir Dr. Peter Mecking 3815	112 * Neue Instrumente und Min/Dirin Kathrin Meyer 5173	122 * AG D * Min/Dir Thomas Romes 5336	212 Zusammenarbeit mit Min/Dir Peter Webers 2083	222 EU-Bildungsprogramme; Min/Dir Dr. Henk van Lierp 3770	312 * Ordnung und Qualitätssicherung Min/Dirin Dr. Julia Schabert 2561 Min/Dirin Leon Wietand 3369	322 Bildungsförderung Ursula Zahn-Elliott 3208	412 * Hochschulrecht, Min/Dirin Dr. Babette Stegmann 5307	422 Forschungs- Min/Dirin Dr. Monika Trautewig 2066	512 Forschung für Min/Dir Dr. Otto Fritz Bode 3540	522 Sicherheitsforschung Min/Dir Dr. Wolf Junker 2843	612 * Ethik und Recht in den Min/Dir Dr. Stephan Roesler 5088	712 Forschungseinrichtungen Min/Dirin Oda Keppeler 2192	722 Grundlagenforschung Min/Dir Dr. Christoph Rövekamp 2360	
Personalangelegenheiten RD'in Dr. Ulrike Geiger 3124 RD'in Dr. Susanne Raube 3006	Z23 Canemling; Min/Dir Peter Weyand 3875	113 * Strategische Min/Dirin Eva Rouney 5366	123 * Grundsatzfragen und Min/Dirin Bettina Klingebil 5152	213 Zusammenarbeit mit Min/Dirin Dr. Susanne Kieffer 3799	223 Forschungspolitik und RD Dr. Erik Harszak 3408	313 Berufshilfe; Min/Dirin Viktoria Antonella Klanten 2114	323 * Leistungsfähigkeit des Min/Dir Dr. Dorothea Treuhart 5219	413 * Ausbildungsförderung – Min/Dir Andreas Schepers 5292	423 HGF, WGL Min/Dir Dr. Stefan Johannes Stupp 2215	513 Photonik, Min/Dir Dr. Frank Schüle 3259	523 Elektroniksysteme; Min/Dir Hermann Riedl 3883 Min/Dir Dr. Stefan Mergel 2189	613 * Lebenswissenschaftliche Min/Dir Dr. Jan Grapentin 5439	713 Europäische Forschungs- Min/Dir Dr. Thomas Roth 3168	723 Globaler Wandel Min/Dirin Dr. Guela Hettig 2071	
Grundsatzfragen der Min/Dirin Wimmer Schack 2256	Z24 Justizariat; Vergabe RD'in Esther Seng 2539	114 * Regionale Min/Dir Hans-Peter Hiepe 5384	124 * Digitaler Wandel Min/Dir Dr. Gabriele Hausdor 5680	214 Zusammenarbeit mit Min/Dir Stefan Schneider 3425	224 Zusammenarbeit mit Min/Dir Dr. Matthias Hack 3199	314 Rechtsfragen der Min/Dirin Dora Metzborg 2227	324 * Frühe und Min/Dirin Antje Scharich 5048	414 Ausbildungsförderung – Min/Dirin Klaus Dieter Schröder 2203	424 FHG, MPG; Innovations- Min/Dir Dr. Ulrich Kraft 3061	514 IT-Systeme Min/Dir Dr. Gerasim Lantvagt 3190	524 Demografischer Min/Dirin Annette Eickmeyer-Hahn 2725	614 * Methoden- und Struktur- Min/Dir Dr. Matthias Köbel 5111	714 Fusionsforschung; FZ1, Min/Dir Dr. Michael Stötzel 3045	724 Ressourcen und Min/Dir Dr. Ulrich Katerkamp 3469	
Z14 Förderverfahren; Min/Dir Magnus Milde 3270	Z25 Personalangelegenheiten; Min/Dirin Gabriele Becker 2240	115 * Statistik; Min/Dir Dr. Eveline Edel von Gähler 2524	125 * Digitaler Wandel RD Dr. Hans-Joel Linkens 3394	215 Zusammenarbeit mit N.N.	225 Referat Bildung und Min/Dirin Dorothea Fuhrbeck Cw. 685-1380 (00322787-1380)	315 * Anerkennung Min/Dirin Ralf Maier 5498	325 * Bildung in Regionen; Min/Dirin Bettina Schwaefelger 5426	415 * Wissenschaftlicher Min/Dirin Dr. Dorothea Buchtaas-Birkholz 5349	425 Geistes-, Sozial- und Min/Dirin Dr. Angelika Wilms-Hergert 2552 Min/Dirin Sabine Eilers 3287	515 Forschung an Min/Dirin Dr. Andrea Detmer 3275 Min/Dirin Sabine Im Hagen-Krause 2524	525 Kommunikationssysteme; Min/Dir Dr. Ulf Lange 3180	615 * Gesundheitsforschung Min/Dirin Dr. Renate Loskill 5049	715 Sittigung, Risiko- und Min/Dirin Sabine Diehr 3759	725 System Erde Min/Dirin Rudolf Leisen 3179	
Z15 Organisation, Stellen, Min/Dir Dr. Ingo Böhringer 2351	Z26 Innerer Dienst Min/Dirin Angelika Block-Meyer 3136	126 * Übergreifende Fragen der Min/Dirin Annette Staeken 5294	126 * Zusammenarbeit Min/Dir Joachim Fiebig 5298	216 * Referat Bildung und Min/Dir Peter Munk 2041	226 * Kulturelle Bildung; Min/Dirin Dr. Inna Eihartha 3518 Min/Dirin Dr. Cathrin Hansen 5177	326 * Innovations- Min/Dir Peter Hasenbach 5264	426 Geistes-, Sozial- und Min/Dirin Dr. Sabine Eilers 3287	526 Kommunikationssysteme; Min/Dir Dr. Ulf Lange 3180	626 * Gesundheitswirtschaft Min/Dirin Dr. Evelyn Obelo 5094	726 * Biökonomie Min/Dirin Andrea Nesko 5415					

CAREER IN THE PUBLIC SECTOR

Federal Minister and Secretaries of State
including political staff, PR

2151 (2019) 5665 (5182) 2874 (2875) 2002/5200 (2004) 3238 (3382) 3631 (3634) 5105/2006 (5102) 2317 (2288)

**Central Services (HR, Budget, IT,
Housekeeping,...**

**Strategy, Science Policy. Digital
Transformation**

**International Cooperation in
Education and Research**

**Vocational Training, Lifelong
Learning**

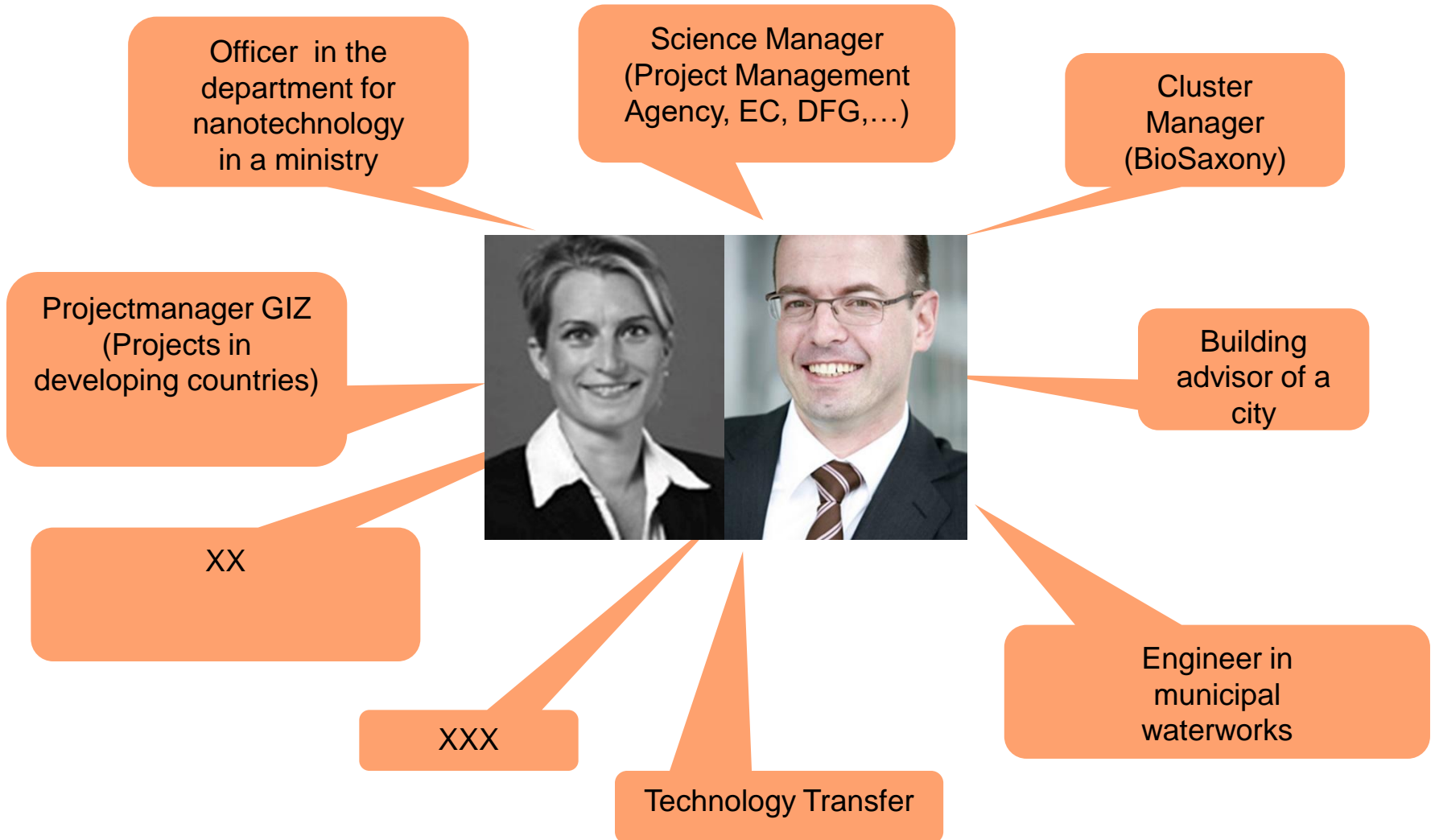
**Science System (Institutions of
Higher Education, Research
Organisations**

**Key Technologies – Research
for Innovation**

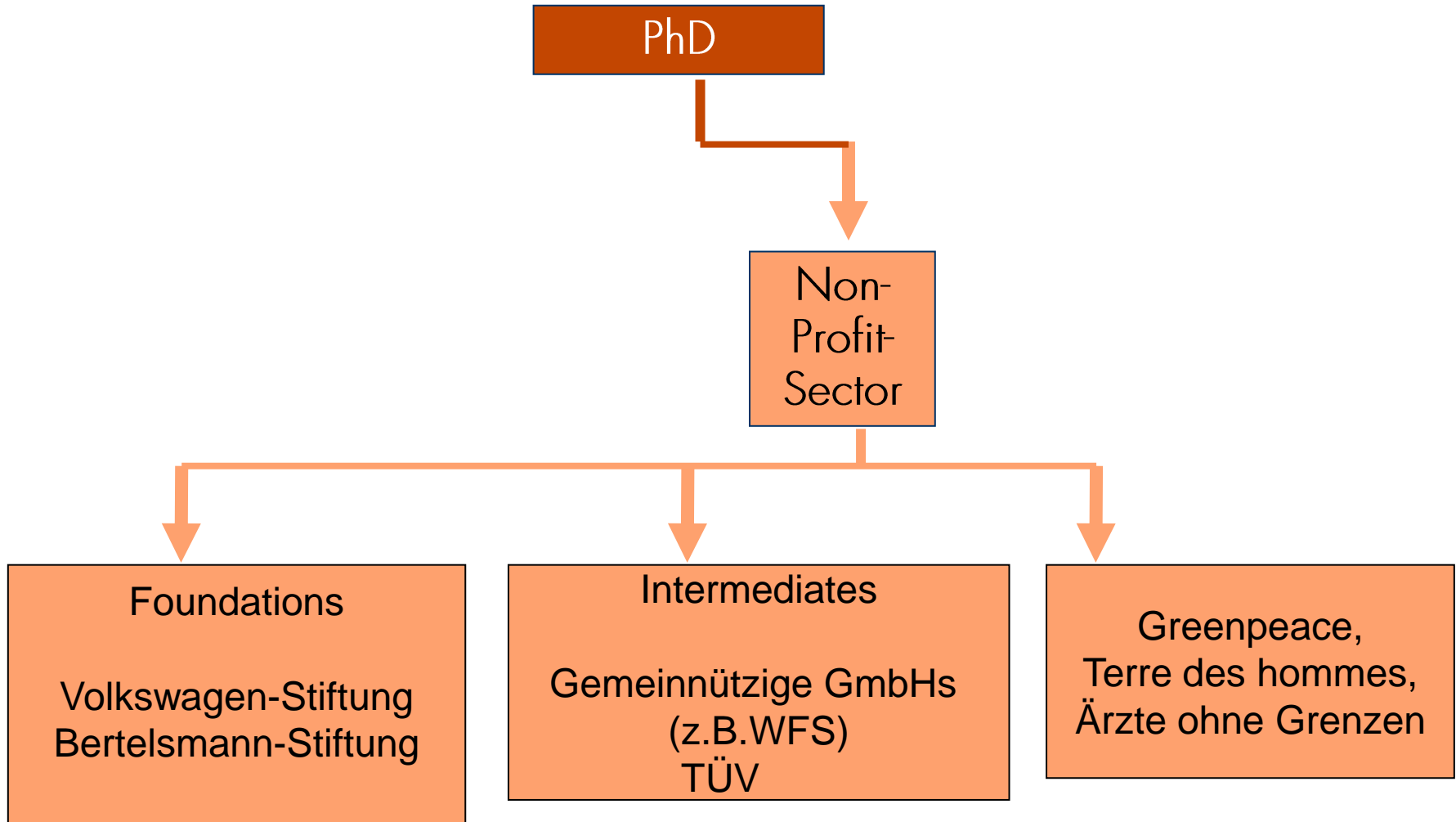
Life Sciences

**Basic and Sustainability
Research**

JOB EXAMPLES IN THE PUBLIC SECTOR



JOB EXAMPLES IN THE NON-PROFIT-SECTOR



STRUCTURE OF THE TALK

- I. General Options
- II. Expectations & goals of employers
- III. Expectations & goals of the applicant
 - How to assess the best strategy for yourself
- I. Questions and Answers

IF I SEEK TO HIRE A PERSON WITH AN ACADEMIC BACKGROUND

I am looking, for someone, who...

- is able to work independently, does not wait to be instructed,
- is able to deal with complexity,
- has a problem-solving-competence, comes up with new solutions,
- will understand the job quickly, acquires missing knowledge,
- is willing to take over responsibility,
- **is able to cover a broad spectrum of tasks.**

IN HR-LANGUAGE ONE WOULD SAY

Credits to Barbara Hoffmann, KEPOS GmbH

- **Analytical skills:** Ability to learn independently, to determine and to assess main facts and figures, to create and test hypotheses
- **Communication skills:** Summarization and presentation of scientific results oral as well as written; training other people by explaining and introducing methods
- **Interdisciplinary and intercultural competences:** ability to practice change between different sciences and cultures
- **Strategic competence:** ability to manage a project over a minimum of three years by planning, coordinating and finalizing
- **Detail-Orientation:** ability to work very precisely and faithfully

IF I MEET YOU IN AN JOB INTERVIEW...

I want to learn something...

- about your personality,
- your soft skills, strengths and weaknesses,
- your way of communicating.

I will try to evaluate...

- your **potential** to fit into my organisation
- your **potential** for different career pathways
- if you are able to tell me about your PhD in one minute

COMPTENCES VS. KNOWLEDGE

Knowledge is something...

...that grows old pretty fast Is acquired rather quickly

Competencies can be...

... methodological (strategic thinking, project management, budget management, software architecture...)

... social (communication skills, conflict management skill, team player,...)

... personal (find out your strengths 😊)

It is more about **who you are** that about what you know

=> You can relax and show the best of you!

IF I SEEK TO HIRE A PERSON (WITH A PhD) FROM THE TU DRESDEN

I am looking, for someone, who...

- comes with a network/ contacts in the area
- knows a certain community
- is an engineer with specific specialisation
- has worked in a specific project

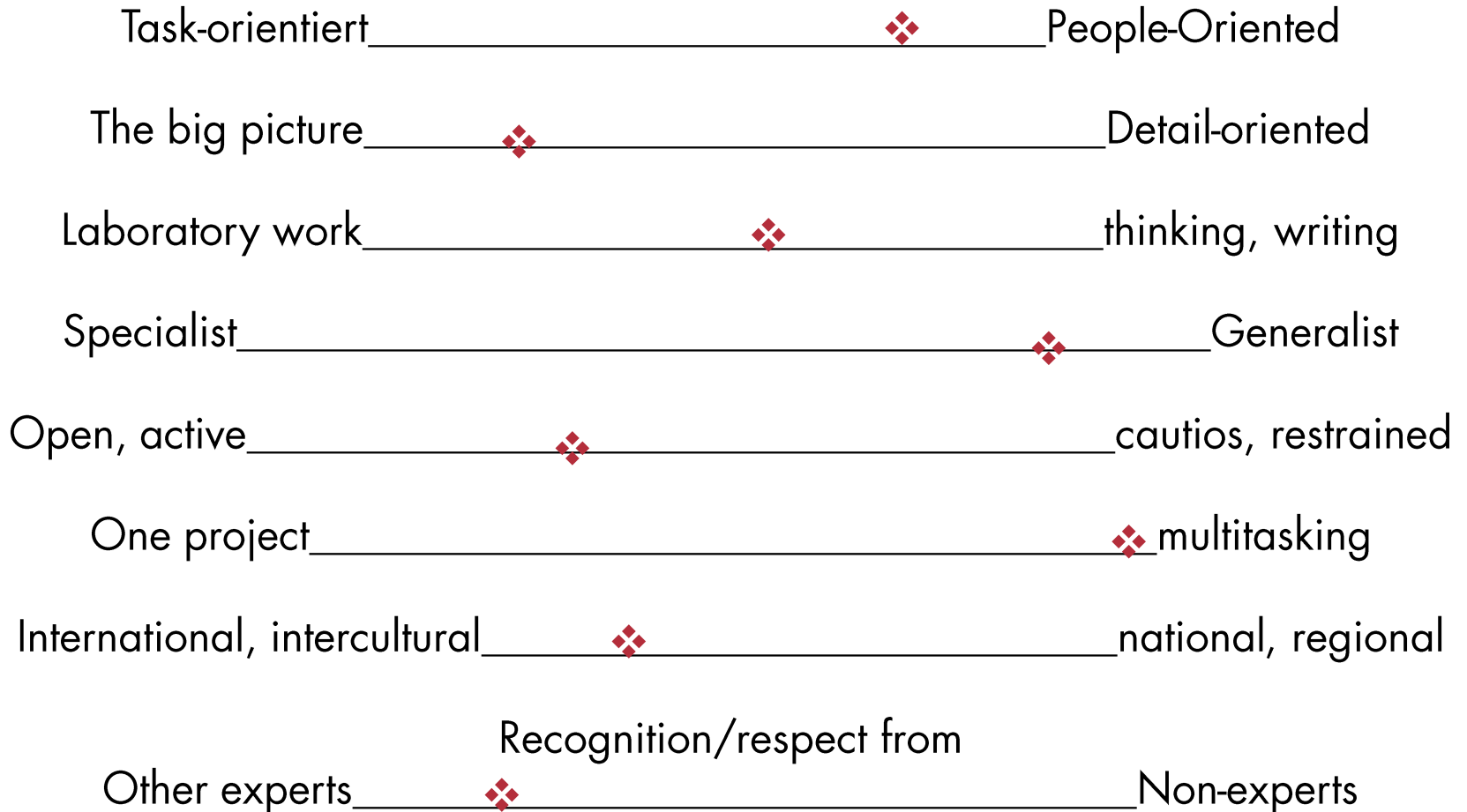
- ...has competencies a lawyer or economist from e.g. Bremen does not have... what could it be?

STRUCTURE OF THE TALK

- I. General Options
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- III. Expectations & goals of the applicant
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- I. Questions and Answers

SELF-ASSESSMENT

Credits to Barbara Hoffmann, KEPOS GmbH



SELF-ASSESSMENT

- Looking for a permanent position or is a temporary position ok?
- Linear strategy vs. Mindmap (job hopping to try out some alternatives)
- How about work-life-balance ?
- flexibility for unexpected options
- salary expectation

IF YOU ARE IN AN JOB INTERVIEW...

You want to learn something...

- about the job,
- about the competencies needed on the job
- about the culture of the organization,
- about the personality of your potential boss,
- his/her way of communicating,

To find out, whether it feels good to work there.

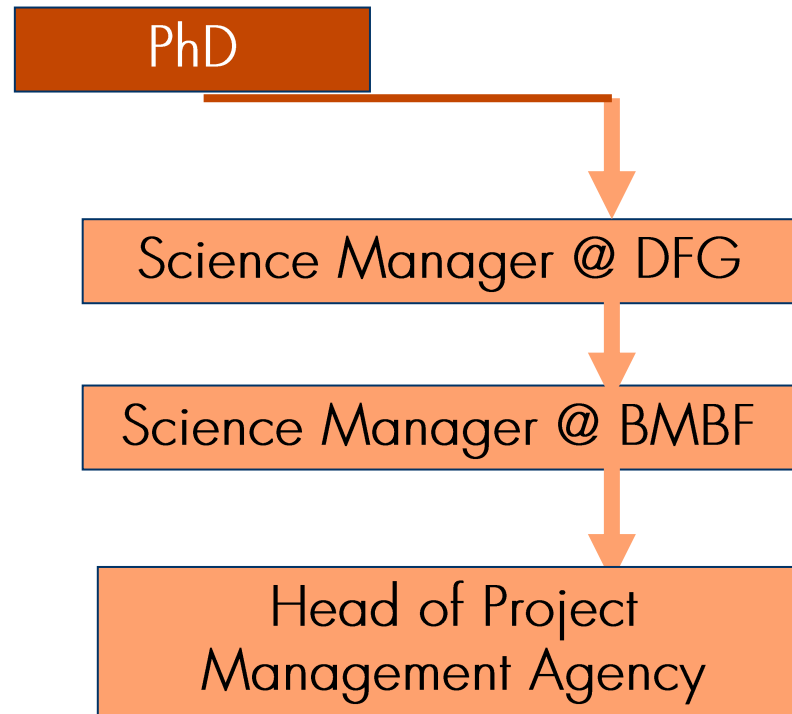
STATISTICS

Source: Bundesbericht Wissenschaftlicher Nachwuchs 2013

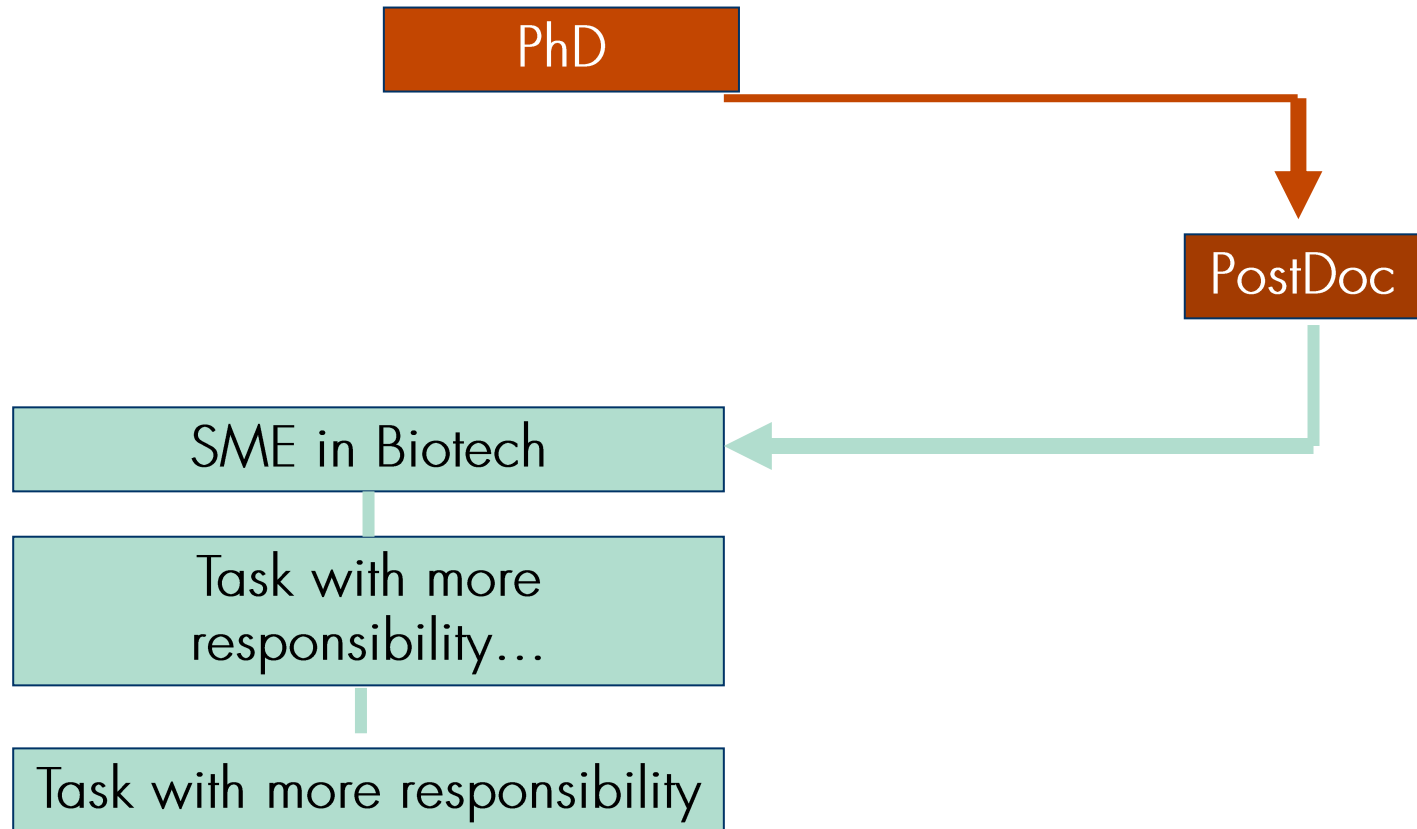
Having finished a PhD, you are ...

- more probable to work full time,
- more probable to get into a leading position,
- very seldom endangered to get unemployed,
- more probable to work in a temporary position especially if you stay in science (public sector),
- will earn significantly more money than the average german employee (and also more than other academics).

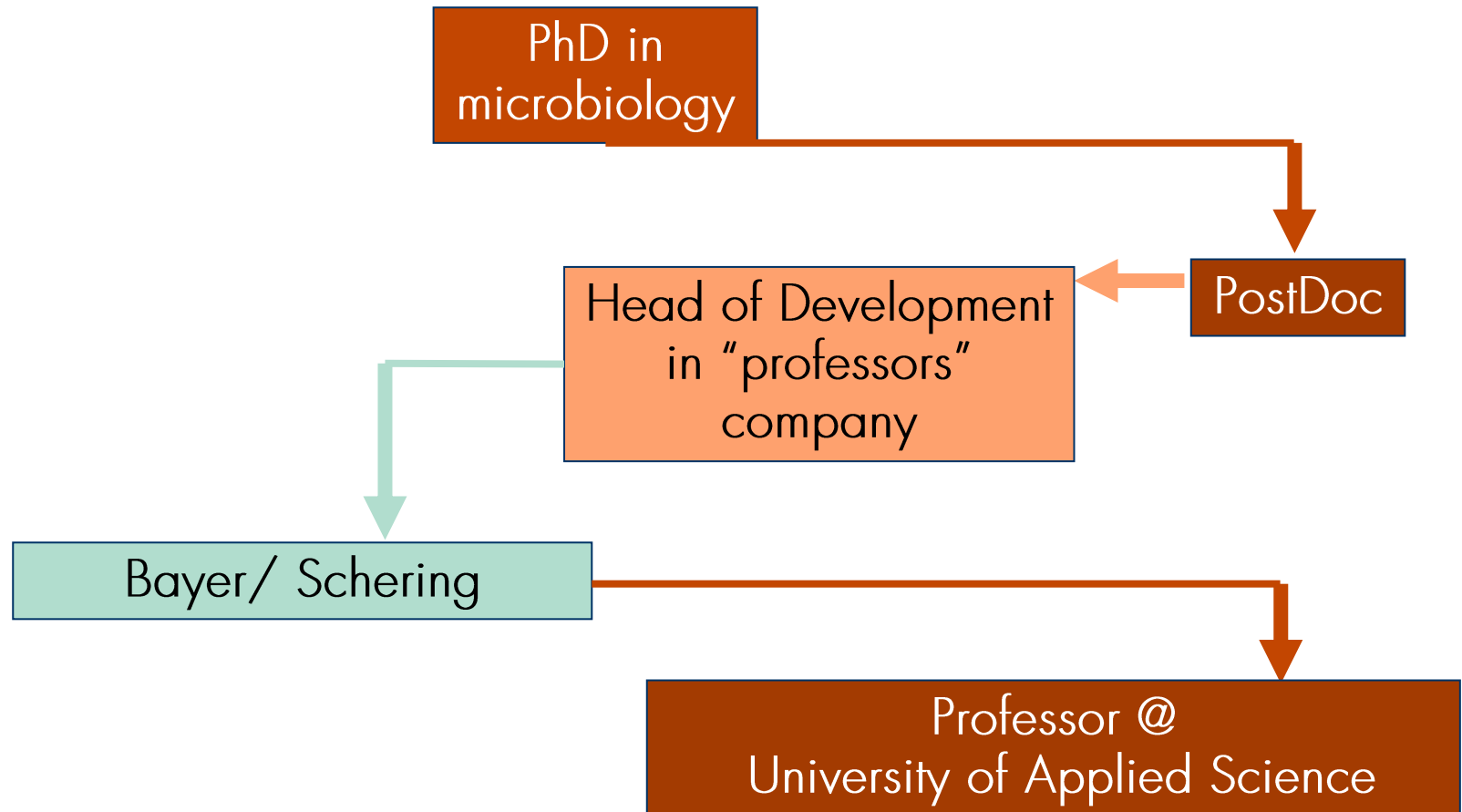
REAL CAREERS



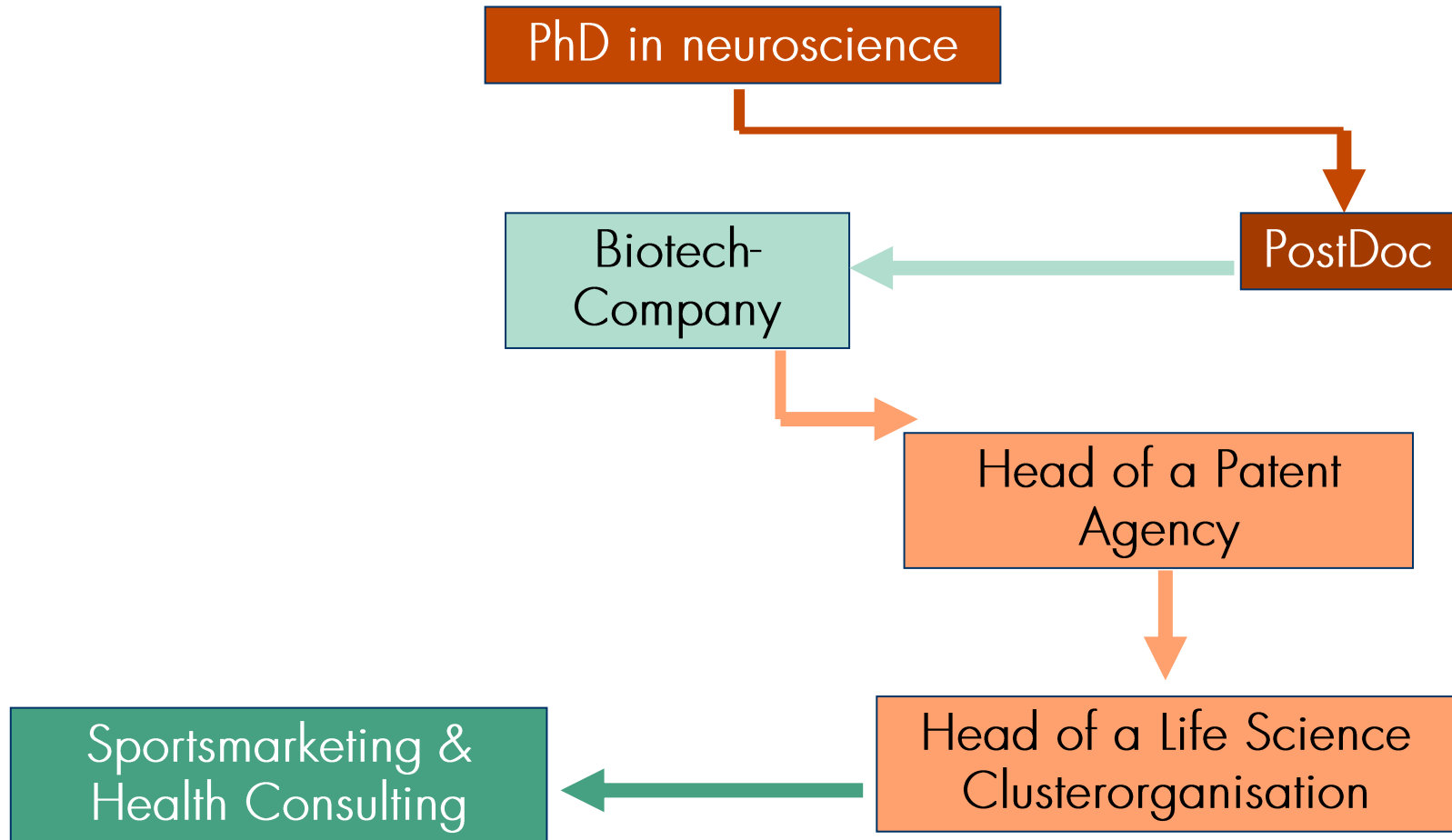
REAL CAREERS



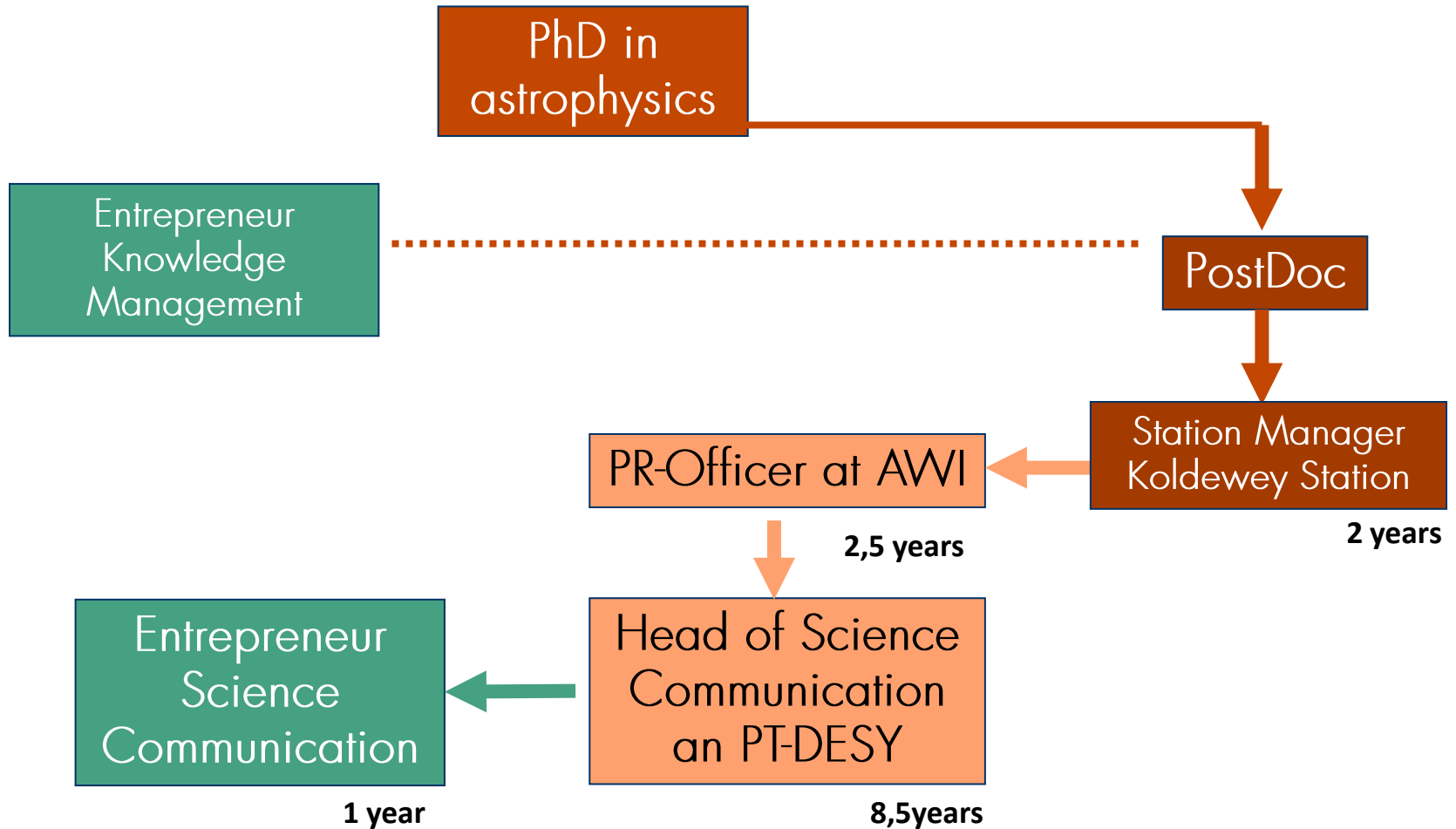
REAL CAREERS



REAL CAREERS



REAL CAREERS



TO SUM UP

- You don't have to decide everything now
- You should be aware of your competencies
- You should be aware of your strengths and weaknesses
- You should be aware of your likes and dislikes and act on them

=> GOOD LUCK !!



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NOVEMBER 10th 2016, 3rd GA CAREER DAY TU DRESDEN

YOUR SPEAKER

Dr. Kristina Böhlke

2000 PhD in Biotechnology at the TU Hamburg

Federal Ministry of Education and Research

DESY Hamburg (Helmholtz-Zentrum)

Behörde für Wissenschaft und Forschung Hamburg

Self-employed by founding KB Konzept

Researcher

Science Manager

Consultant &
Communications-Trainer