



GSIA - SSPI - SSIP
CH-4104 Oberwil
info@gsia.ch

The Job Profile of the Industrial Pharmacist

SAPhW Fellows meeting « Science in Pharmacy, Pharmacy in Science »

F.Zwahlen, President GSIA

1000 to 1500 Pharmacist are working in Industry ^{a)}

19% of Masterstudents are choosing the Industry ^{b)}

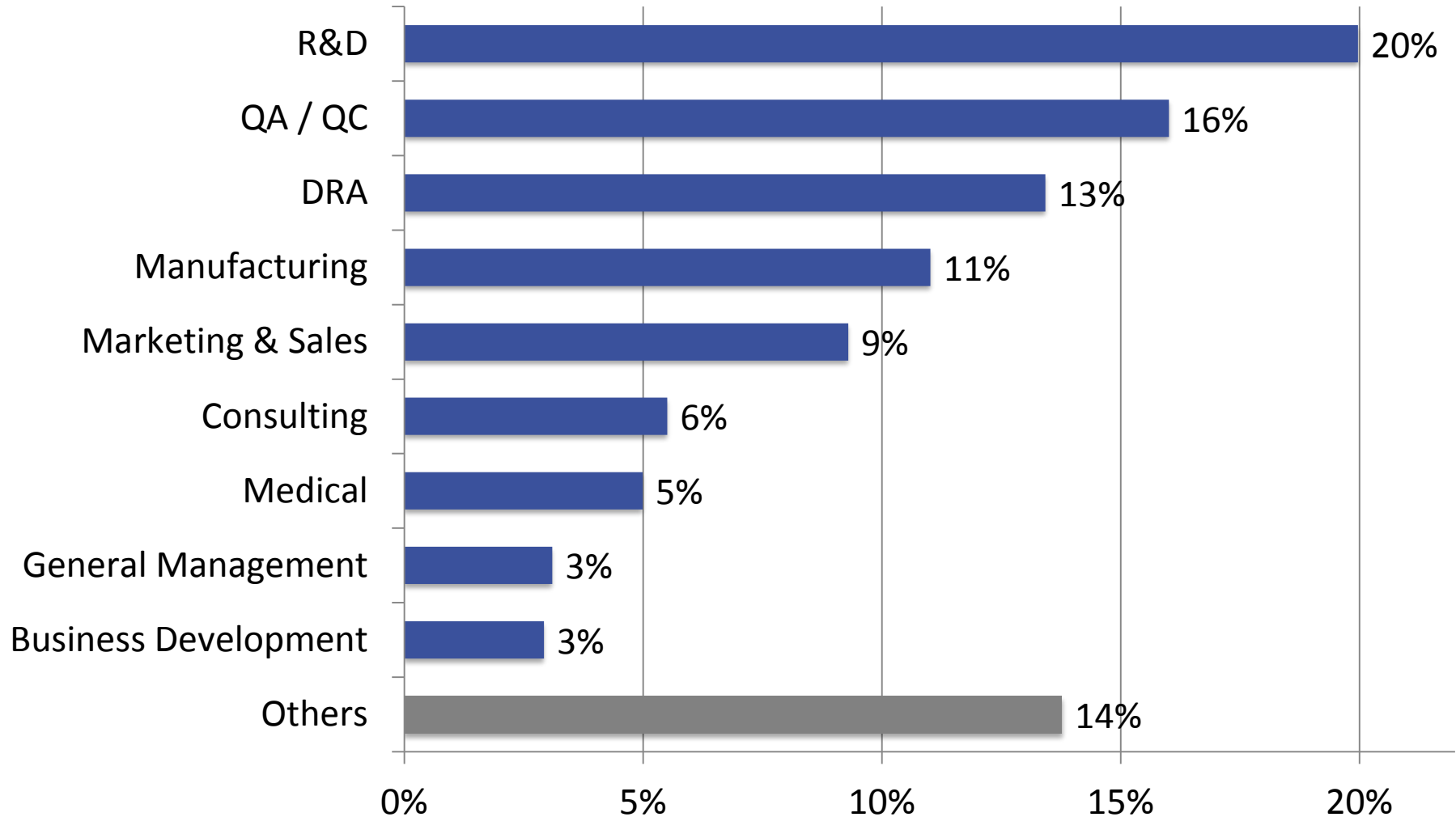
Pharmaceutical is most growing Export Industry, >5% annual growth ^{c)}

a) Strukturbehebung 2010-2013: 363 Pharmacist with federal Diplom; GSIA about 630 members, max 50% of all pharmacist active in industry are members

b) Statistiques OAQ 2011 1-5 ans après obtention du diplôme fédéral de pharmacien

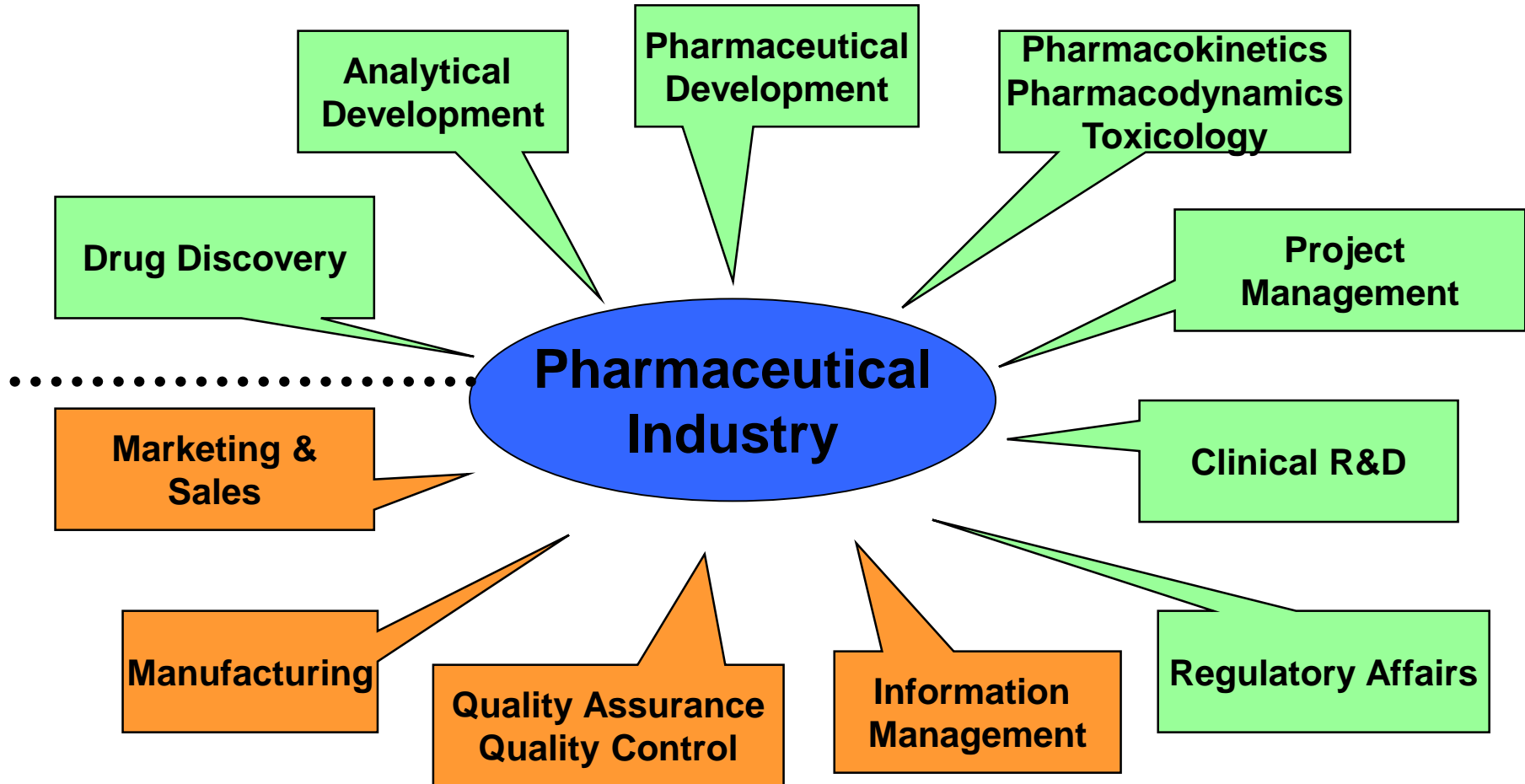
c) Science industrie (1980-2014): 1878% pharmaceutical export growth in value

Main Activities: R&D, Quality and DRA



Source: SSIP member database, accessed 15.1.2017 – multiple options possible

Typical Pharmacist Job in the Industry



Basics

- **Science based Training** (Biology – Chemistry – Physics & Mathematics/Statistics)
- **Pharmaceutical Science Expertise** (Pharma Technology - Pharma Analytics- Pharmacology – Toxicology)
- **Practical training** (Pharma Analytics– Pharmaceutical Technology)
- **Medical background** (Physiology – Anatomy – Therapeutics)
- **Quality and Regulatory aspects**

Enlarged:

- **Development Process** (Clinical Development – Drug Development – Pharmacovigilance - Pharmacoepidemiology)
- **Bio Process** (Analytics - Manufacturing (upstream and downstream))
- **Project Management** (Method & Principles)
- **Biostatistics**
- **Pharma Economics and Marketing**

Scientific based training develop the necessary skills, like

- **Analytical Mindset**
- **Scientific Rigor**
- **Scientific Writing**
- **Teamwork – collaboration with other experts**

Additional Knowledge (to be acquire outside University Training)

- **Languages** (Englisch – German – French – etc.)
- **Organisation** (Planning – Meeting Management – etc)
- **Communication skills** (Presentation – Speaking in Public – Teaching)

Science based training is mandatory!

The scientific background is needed too for Hospital and Public Pharmacist .

For example:

- Manufacturing of drugs
- Mechanism of action
- Information to the patient
- Quality assurance for the drug delivery
- Personalized Medicine
- Etc.

спасибо 谢谢
GRACIAS 谢谢
THANK YOU
ありがとうございました **MERCI**
DANKE धन्यवाद
شُكْرًا **OBRIGADO**



GSIA
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Gesellschaft der Schweizerischen Industrie-Apotheker(Innen)
Société suisse des pharmaciens(ne)s d'industrie
Swiss Society of Industrial Pharmacists