# Building Win-Win Partnerships between Academia & The ITU Academy

### **ROBERT HORVITZ**

#### Fostering Innovation & Partnerships in Human Capacity Building: Enhanced Engagement of Academia in the Work of the ITU

Organized by the International Telecommunication Union Czech Technical University in Prague

> National Technical Library 28 April 2014



- Today's spectrum manager needs both specialized technical skills & a clear understanding of legal & economic issues.
- Such broad & varied requirements contrast with the knowledge base of the typical university graduate.
- So regulatory agencies & wireless operators have little choice but to train new recruits on the job. This is possible in large organizations but it takes a long time to reach a high level of competence & too often results in a biased perspective.
- In younger & smaller organizations, opportunities to acquire knowledge are limited.
- The need for specialized/professional spectrum management training is clear.



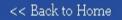
# **Existing options**

- Private "schools" for telecom technician training
- Short-term courses, either commercial or sponsored (USTTI, ICC's Spectrum Master Class, etc.)
- No university degree programs in spectrum management?
  Nearest approximation: "Telecoms Academy" a partnership between the University of Derby's Corporate division & the Informa Telecoms & Media Group in the UK -
  - Post-graduate courses in telecom engineering & management
  - Combinations of online & on-campus classes & work assignments
  - Currently no course offerings in spectrum management





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The ITU Academy provides training in Telecommunication Policy and Regulation focusing on privatization issues in telecommunications, competition and price regulation, law and policy for telecommunications, universal access, radio spectrum management, dispute resolutions, new technologies and impact on regulation, etc.

# **POLICY AND REGULATION**

## **ITU Academy Offerings**

ICT Policy & Regulation, with emphasis on Licensing (workshop in Nairobi, Kenya, 21-25 April 2014)

"This course describes the legal, regulatory, policy & environmental requirements for a converged society within the provision of Information and Communication Services in the context of global transformation. The course examines the policy, legal, regulatory, and environmental issues facing governments, network operators and users of ICTs."



## **ITU Academy Offerings**

Master Professionnel en Politiques et Régulation des TICs (distance learning, 9 January – 31 October 2013)

"Le programme du master en ligne en Régulation et Politique des Technologies de l'Information et de la Communication (eMRP-TIC) de l'ESMT est un master professionnel multidisciplinaire ayant pour objectif de doter les professionnels du secteur des TICs de qualifications requises et d'un diplôme de troisième cycle dans la conception des politiques et la régulation du secteur des TICs. Initiative pour les sous-régions Ouest et Centre de l'Afrique (UEMOA/ECOWAS/CEMAC)."



- If the curriculum had a Master's degree level of sophistication, employers would value it.
- For prospective students, employer acceptance of the course would eliminate the need to quit working to improve one's career prospects.
- For employers it would offer a benchmark, simplifying recruitment while facilitating the mobility of spectrum management professionals.



### Possible Master's Degree Curriculum

#### **REQUIRED**:

- Legal Basis & Regulatory Framework of Spectrum Management
- Spectrum Engineering Fundamentals
- Wireless Telecommunications Technologies
- Economic & Market Tools of Spectrum Management
- Strategic Planning & Policies for Wireless Innovation

#### ELECTIVES:

- Spectrum Monitoring
- Enforcement & Type Approval of Equipment
- Spectrum Management for Satellite Systems
- Spectrum Management for HF Systems, Science, Maritime & Amateur Services
- Spectrum Management for Aeronautical, Radiodetermination & Military Systems
- Advanced Spectrum Authorization Regimes
- Socioeconomic Impact of Spectrum Regulation; Competition & Consumer Protection
- Terrestrial TV Broadcasting Planning & Digital Transition
- Opportunistic Spectrum Access & Cognitive Radio



## **ITU-Academia Partnership**

- Award of a **diploma** combining a recognized academic level, such as a Masters degree, with ITU endorsement of curriculum & course content, would clearly distinguish the partnered offering from any other program.
- Alternative: a **certificate** representing partial completion of internationally (ITU) vetted course modules *with transferable credits* which could count towards a Masters degree at some other academic institution.



By offering a thorough, carefully vetted professional degree program in spectrum management, the ITU & selected academic partners could set a "gold standard" of practical knowledge, promote global harmonization & improve the quality of regulation.



### Velice vám děkujeme!

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