

## **Cross-Reference Resulting from RA Research Committee meeting 16<sup>th</sup> February**

### **Introduction**

The aim of this document is to propose a cross-reference table that could be used as a tool to develop and maintain an RA strategy for research. The idea builds on Dr Tuttlebee's bubble chart but tries to link the activities of the RA to the desirable areas of research while at the same time checking that we are acting within the Terms of Reference and the Recommendations of the Research Review.

It is proposed to have a very easy and clear method of seeing the coverage of the research programmes as they are now, any changes we propose and any future longer term strategies we decide to support the activities of the Agency as we move towards the OFCOM environment.

In the preparation of this draft, I have left some columns 'blank' as they require further work. The inclusion of the implications of the convergence study is to reflect the points made by Mike Goddard. It could be that future prediction is a further group of tasks in the 'Detailed Task' column and thus a dedicated column is not helpful. Recognising the research programme on the existing tasks may have additional aspects resulting from the future work but rolled into the same research project under the current RA detailed task, I have put it as a dedicated column for now.

It is intended to introduce this table at the next meeting and seek lively debate at the meeting. Notice however, not all the recommendations and ToRs of this committee are appropriate for this table. The exclusions include subjects like the establishment of the RRAC (which of course has been done). In support of this table I should make some brief explanations:

### **Detailed tasks**

This is the key to the whole table. In this column is listed all the activities of the Radiocommunications Agency. I strongly propose that efforts are made to make this as complete a list as possible as the table tries to look at all activity and allow a decision to be made that research need not be undertaken in some fields as well as identifying where it should. The tasks are grouped for convenience.

### **Term of Reference and Research Review Recommendation**

It is important that the table demonstrates that the Committee's activity falls into something that it should be doing.

### **Implication from convergence Study – TBA**

### **Priority**

This is the second most important column as it defines which projects get done and which ones not.

### **Due Date**

This is the date by which the RA needs the results. It could be set to some years in the future of course.

**Classification**

This is a column included to permit some idea of the type of research needed. Examples could be Economic/Technical/Market/Demographic etc.

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Detailed Task	Term of Reference Applicable	Research Review Recommendation	Implication from Convergence Study	RA Priority	Due Date	Classification	Current/Planned Research Project	Notes
Assignment - National	6. Spectrum efficiency scheme	R2 - Greater use of spectrum	TBA					Question on occupancy if self managed
Assignment - Regional	6. Spectrum efficiency scheme	R2 - Greater use of spectrum	TBA				Propagation - 3 types	Re-use
Assignment - Shared	6. Spectrum efficiency scheme	RB - Spectrum Sharing	TBA					Re-use Issue of co-existence of technology
Assignment - Comparative (beauty contest)	6. Spectrum efficiency scheme	R2 - Greater use of spectrum	TBA					Competition and market behaviour
Assignment - Auction	6. Spectrum efficiency scheme	R2 - Greater use of spectrum	TBA					Rules, pre-conditions, timing, competition
Allocation - Spectrum Engineering	6. Spectrum efficiency scheme	RB - Spectrum Sharing	TBA				Propagation - 3 types	WG SE papers.
Allocation - Band Planning	6. Spectrum efficiency scheme	R2 - Greater use of spectrum	TBA					Market research
Allocation - International Harmonisation	5. Research programme	R2 - Greater use of spectrum	TBA	A				Economies of scale if correct applications harmonised
Allocation - Re-farming policy	6. Spectrum efficiency scheme	R2 - Greater use of spectrum	TBA	A				Market research / Monitoring Funded movement?
Allocation - Re-farming implementation	6. Spectrum efficiency scheme	R2 - Greater use of spectrum	TBA	B				Economic Studies/research
Allocation - Long term planning	6. Spectrum efficiency scheme	R2 - Greater use of spectrum	TBA					Economic Studies/research
Monitoring - Policy	6. Spectrum efficiency scheme	R2 - Greater use of spectrum	TBA					Fees and charges support
Monitoring - Technology for Monitoring	5. Research programme	R2 - Greater use of spectrum	TBA	A				
Monitoring - Implementation	6. Spectrum efficiency scheme	R2 - Greater use of spectrum	TBA					Choice of sites Short range, high data rate, advanced modulation technology etc etc
Monitoring - Search for low occupancy	6. Spectrum efficiency scheme	R2 - Greater use of spectrum	TBA	A				MAJOR ISSUE of ToR 6
Efficiency - Fee structure	6. Spectrum efficiency scheme	R2 - Greater use of spectrum	TBA					Monitoring refers
Efficiency - Market/Demographics	6. Spectrum efficiency scheme	RB - Spectrum Sharing	TBA	A				
Efficiency - e-business	6. Spectrum efficiency scheme	R3 - Development of efficient technology	TBA					Major issue for ToR 6

Efficiency - Wireless technology	6. Spectrum efficiency scheme	R3 - Development of efficient technology	TBA	<b>B</b>				Relationship with market research and demographics (population stats and behaviours)
Efficiency - Benefit of research	3. Value of research / 7. Research Evaluation	R4&7 - Measure cost/benefit of research	TBA					How well have we done our job!
Efficiency - Training	6. Spectrum efficiency scheme	R8 - R&D and Training	TBA					