



ACMA Reform Agenda: Radiocommunication Licensing



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Overview

- Current ACMA licensing and processes
- ACMA & Accredited Person frequency coordination
- ACMA's business transformation programme
- Project Spectrum & Spectrum Management System
- Implications for ACMA stakeholders
- Transformation timeline



Why 'licence' spectrum?

- Spectrum is not a consumable resource but, its utility is diminished by interference.
- In practice, **the sole purpose of licensing spectrum use is to implement procedures for interference management** – ie. to provide utility and to protect investments made.
- Interference management ~ Quality of Service (QoS)
- Decisions about spectrum use are linked to QoS and licensing



The ACMA licensing toolkit

- **Class Licensing** (the ‘Public Park Spectrum’)
- **Spectrum Licensing** (‘Private Spectrum’)
- **Apparatus Licensing** (‘Command & Control’)
 - the most common with 148,747 on issue (Jun 2007)
 - 78% ‘assigned’ (*revenue \$133.2M*);
 - 22% ‘non-assigned’ (*\$1.6M*);
 - annual renewal, but may be issued for up to 5 years



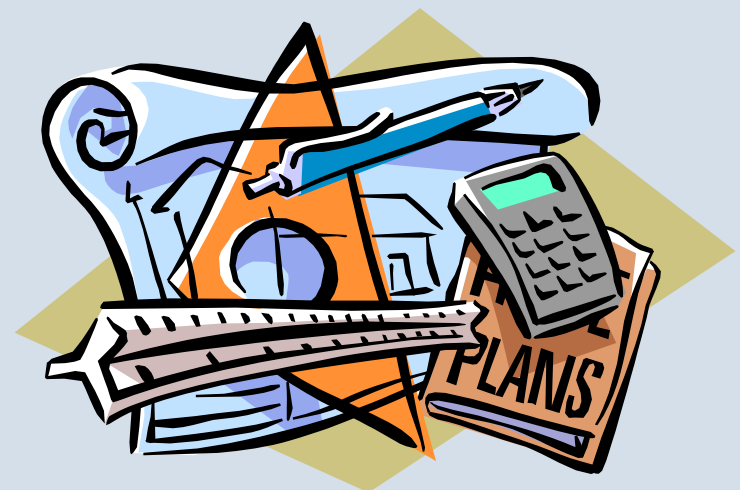
Interference Management vs Licensing

Type	Interference management	Licensing overhead	Quality of Service (QoS)	Spectrum sharing
Apparatus	<i>Device-based, shared</i>	<i>High</i>	<i>High</i>	<i>Good</i>
Class	<i>Parameter based, shared</i>	<i>Low</i>	<i>Uncertain</i>	<i>Excellent</i>
Spectrum	<i>Parameter based property right</i>	<i>Moderate (varies)</i>	<i>High ie. Absolute</i>	<i>Not shared, but 'traded'.</i>



Frequency Coordination

- Needed for all ‘assigned’ apparatus licences
- Band/channel selection, interference calculations...
- ACMA RADCOM database
- ACMA vs ‘Accredited Persons’
 - ‘contestable work’





Assigned Licence Statistics*

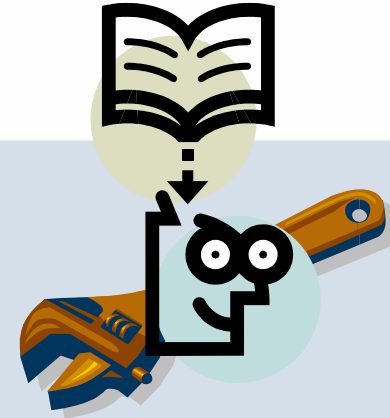
Frequency Assignments for apparatus licences	Total	ACMA	Accredited Persons
New applications	14,494	23.9%	76.1 %
Variations	3,774	37.8 %	61.2 %
Short Term Events (eg. AGP, Defence exercises etc..)	2453	89.3 %	10.7 %
OVERALL TOTAL	20,721	34.4 %	65.6 %

* ACMA RADCOM stats for 1 April 2007 – 31 March 2008



Current licensing processes

- Legacy (ACA/ABA) licensing paperwork
- RADCOM licensing & coordination database.
- Current ACMA customer service (KPI) targets:
 - Apparatus licence (**non-assigned**) 100% of applications completed within 14 days;
 - Apparatus licence (**assigned**) 70% of applications completed within 70 days.



ACMA business transformation

- Reform of licensing processes and practices
- Review of frequency assignment processes and tools
- ACMA Spectrum Management System (SMS)
- Automation and ‘e-licensing’
- Integrated engineering and assignment tools
- Enhanced support for Accredited Persons

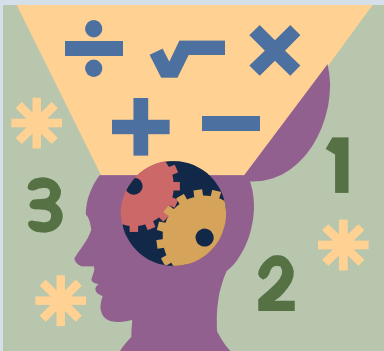
AIM: Total e-delivery for ACMA customers

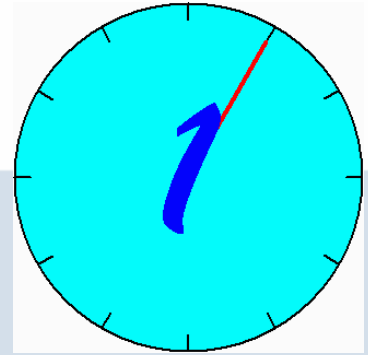


But just a moment!



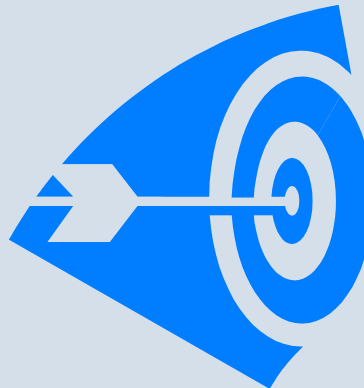
- Q. Won't cognitive radio and related developments do away with frequency coordination and licensing?
- Q. As a logical extension to e-licensing, why not implement automated frequency assignment?



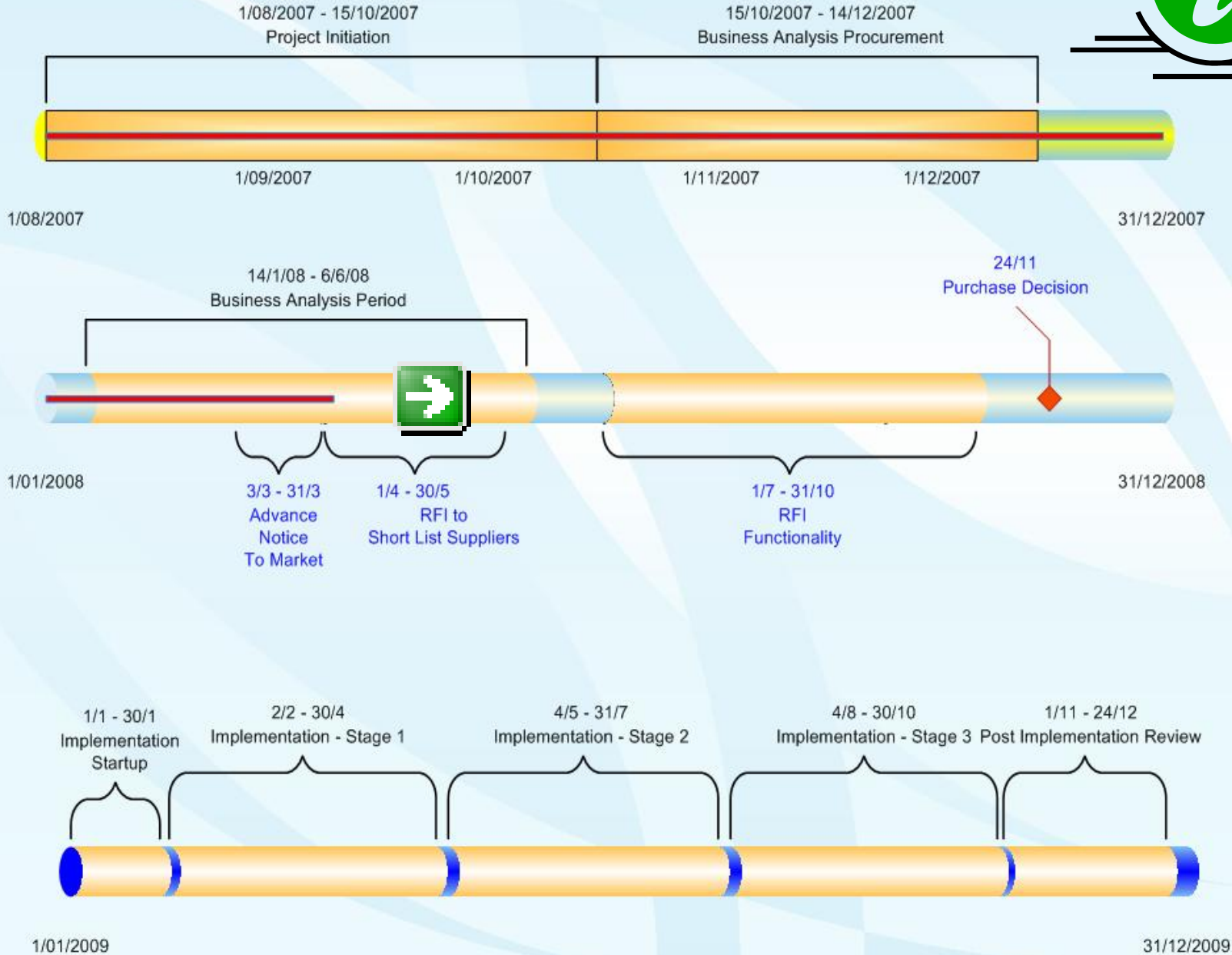


So, what's in it for me?

- Licence applicants and spectrum users
- Accredited Persons
- ACMA



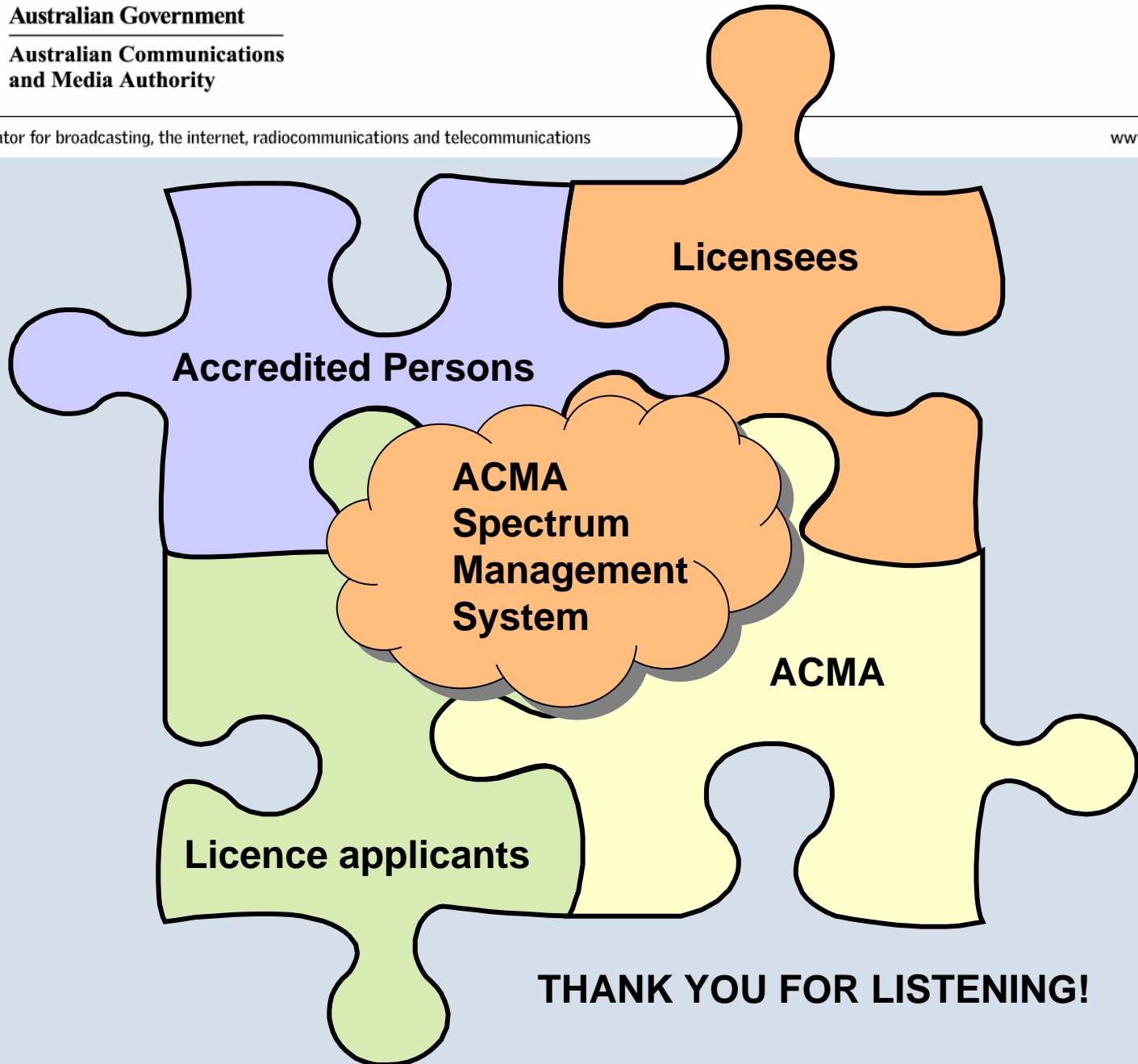
Project Spectrum





Conclusion

- A key part of ACMA's spectrum transformation involves improvements to business processes
- Cut paperwork & 'red tape', reduce delays, using technology and improved processes
- Win-win, for spectrum users, Accredited Persons and ACMA



THANK YOU FOR LISTENING!