

The TrustDR Project

Practical Approaches to DRM in e-Repositories

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Introductions & Overview

- Introductions
 - John Casey: TrustDR Project Manager
 - David Dripps: TrustDR Systems Developer
 - Jackie Proven: Digital Rights R & D Assistant
- Overview
 - Practical ways of managing IPR in digital learning materials
 - Especially learning objects in institutional repositories
 - We are at the policy formulation stage - you can help!

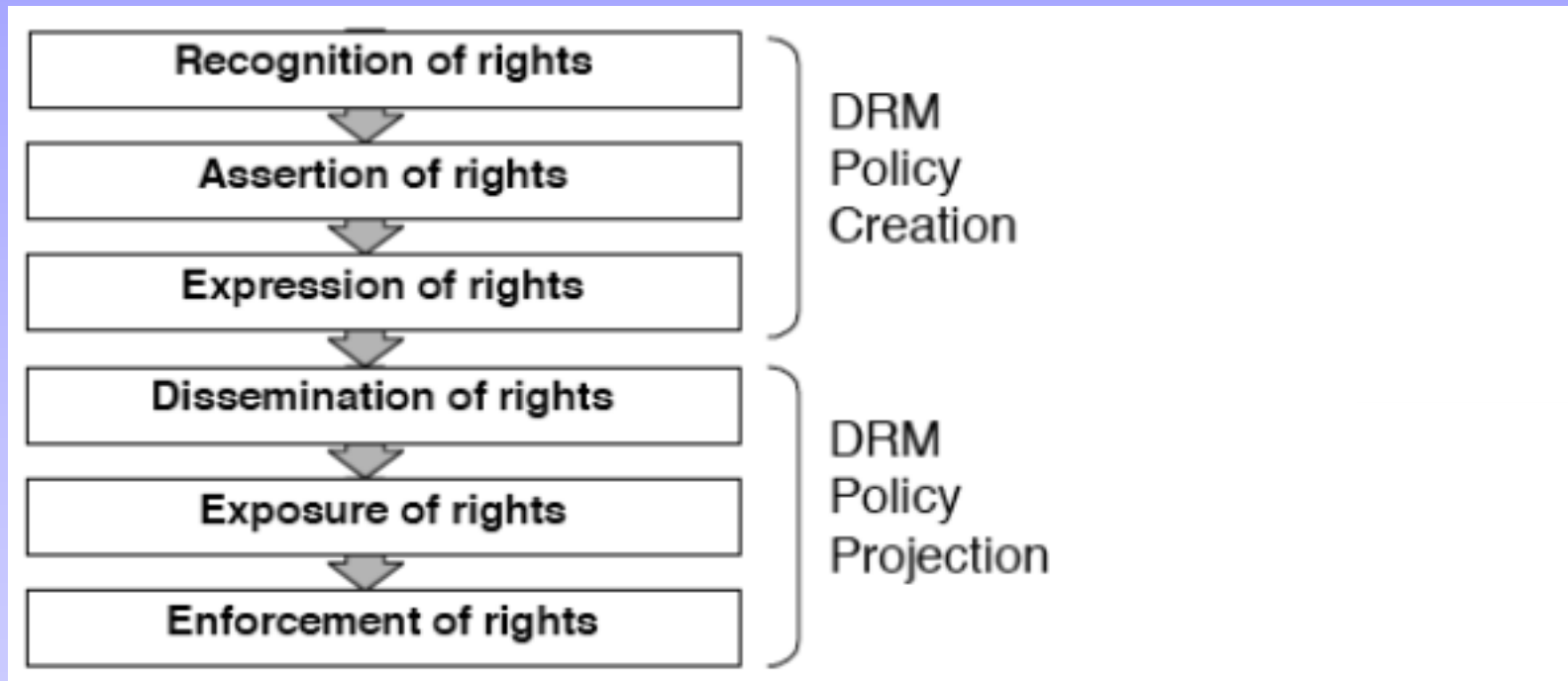
The TrustDR Project

- At the intersection of technology, education and the law
- DRM (Digital Rights Management) systems for institutional repositories
- Cultural issues

About TrustDR

- Out of the experience of the X4L programme
- A systems approach - holistic
- The TrustDR Framework is derived from
 - RoMEO
 - JISC DRM study (Intrallet)
- Of general application to digital learning materials
- But particularly interested in LO Repositories
- Next Slide - Introducing the TrustDR framework

TrustDR Framework



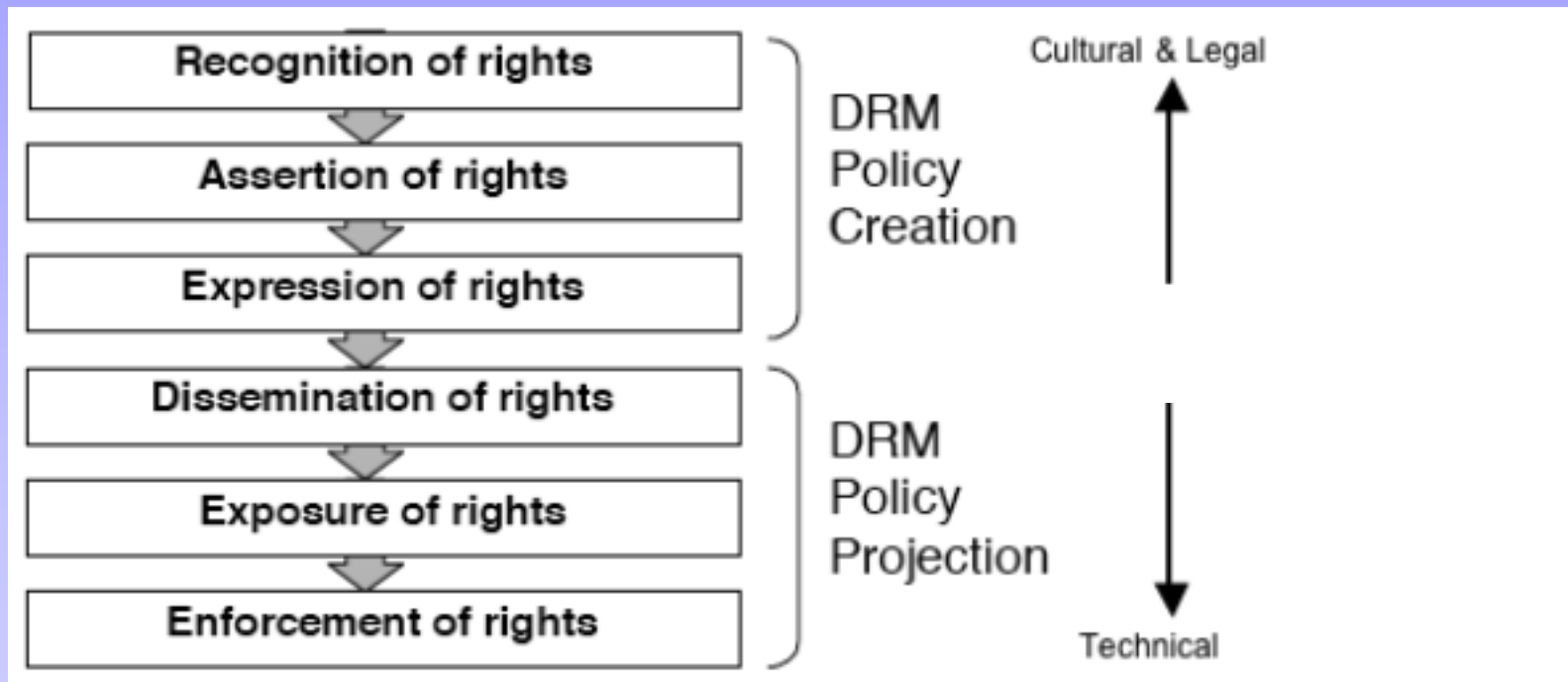
Policy Creation

- These first three stages all address the creation of a DRM policy.
 - Recognition of rights - staff, employers publishers etc - aware of who the rights holders are and what items and uses might be licensed.
 - Assertion of rights - a legal framework in which people and organisations can assert their rights in a form that is defensible under law.
 - Expression of rights - traditionally a copyright statement in a human-readable form - also essential to take account of machine-to-machine (m2m) communication when considering digital rights management.

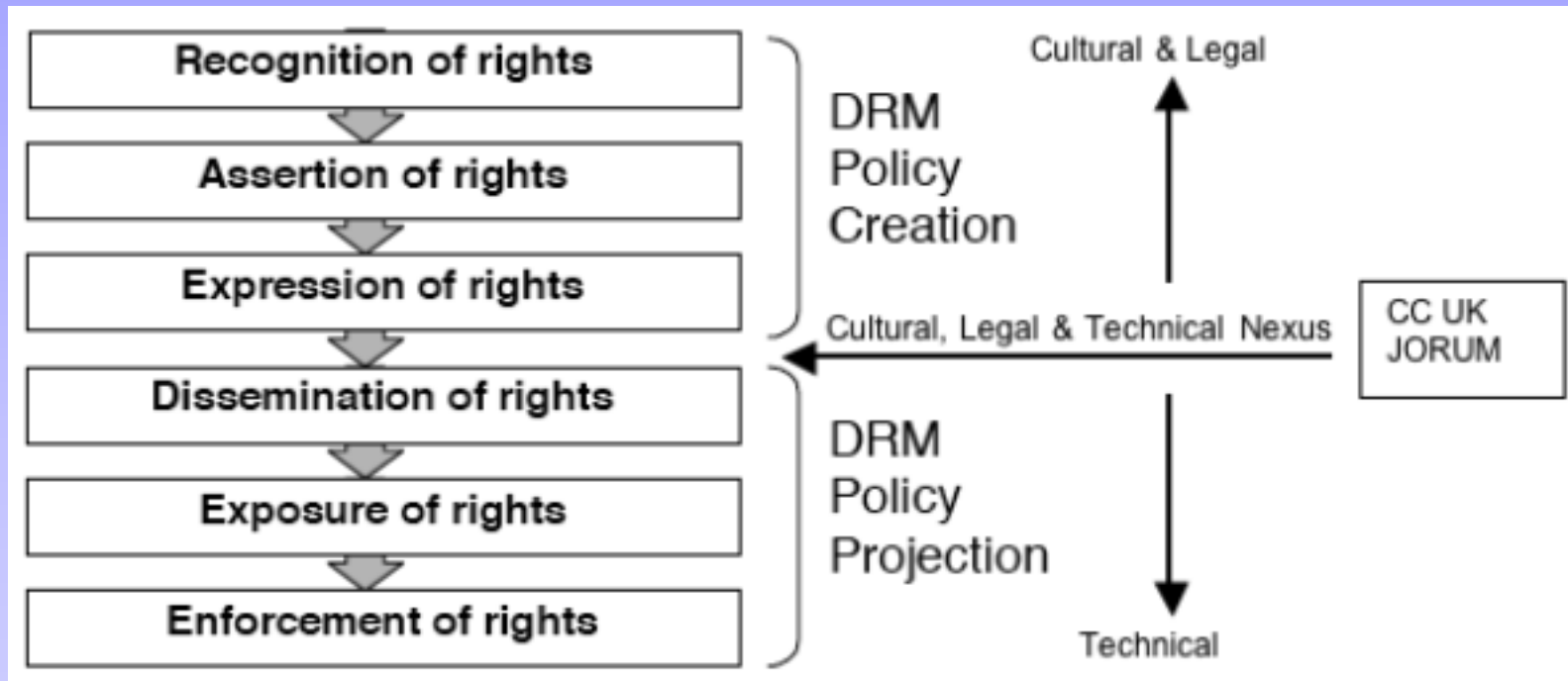
Policy Projection

- The final three stages concern the projection of a DRM policy.
 - Dissemination of rights - wherever a resource is described its rights are also described.
 - Exposure of rights - a user will see the rights information associated with a resource - e.g. when searching for resources or accessing a resource.
 - Enforcement of rights - is both protective measures (tech and non-tech) to ensure that rights are not infringed, and steps to be taken when infringements are detected (legal and non legal).

TrustDR Framework

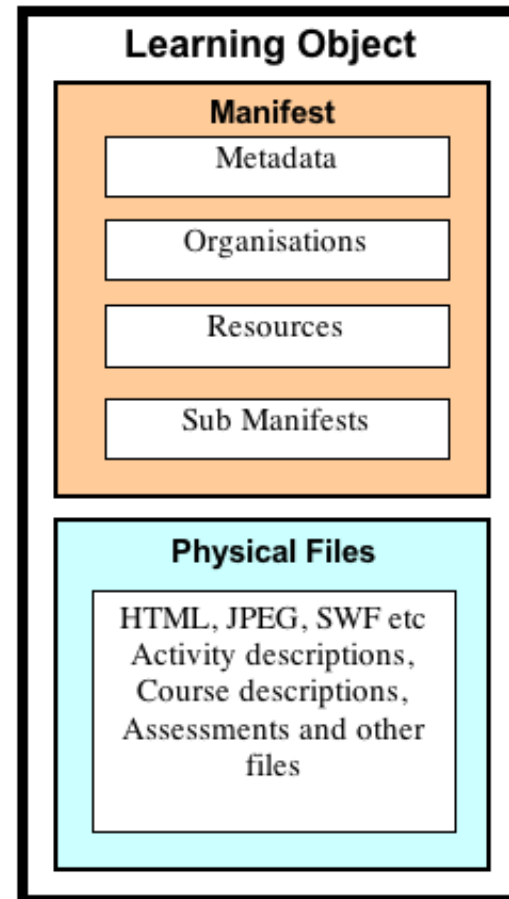


TrustDR Framework



Learning Objects

- Born to share...
- Metadata
- Repository
- Legal Issues



**Conceptual Model of a Learning Object
(An IMS Content Package)**

It can be a 'logical' entity in a file storage system or a 'physical' entity e.g. a zipped file package

Understanding the Business 1

- DRM is potentially expensive and disruptive in any business
- Makes sense think about it first!
- DRM is 'broad and deep'
- What is your e-learning business?
- E-learning still not integrated?

Understanding the Business 2

- Flexible and Blended learning?
- Supported by e-learning?
- Large organisational and professional challenges
- The technology is not neutral...

Understanding the Business 3

- Implicit business models and pedagogic models in Los:
 - Division of labour – industrial
 - Team based – not individualist
 - Materials and courses fixed for several years
 - UG teaching need not be linked to research (Laurillard)

Understanding the Business 4

- The role of materials is not the key..
- The idea of an educational system:

Senior Management

Operational Management

Service Units

Academic Units

Teaching and Learner Support Functions

Teachers, Tutors, Examiners

Learning Materials

Librarians, IT services, Estates

Administration, Registry, Finance Department

Study and Pastoral Support

Understanding the Business 5

- Value of the materials £ or utility?
- Teaching/discussion/process most important (Laurillard)
- Risk management
- Reputation management
- Legal factors - covered
- Technical factors - what is available and stable - keep it simple
- What do we do?

What Is To Be Done?

- changing environment with immature technology and practice
- Go for first 3 levels of the framework - solid foundation
- NB Without attribution and basic record keeping – no ownership and high risk
- No-tech and Lo-tech first

Policy

- Emerging Policy Considerations
- Institutional
 - General characteristics?
 - Particular targets?
- National

