



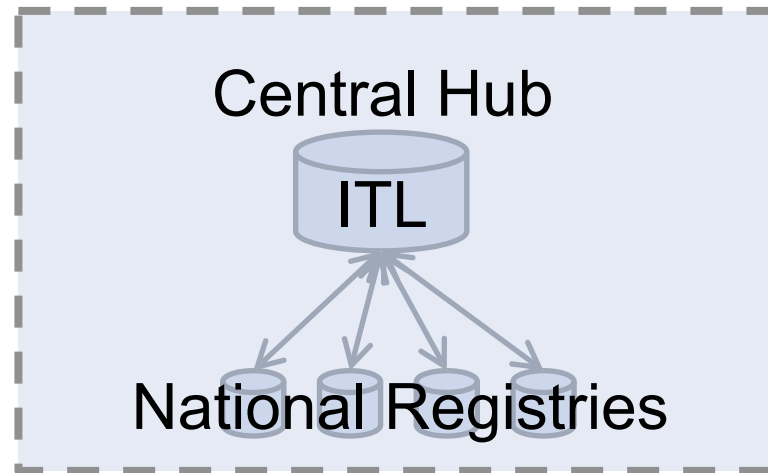
Building registries to support robust accounting

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Munetaka KIMURA
NTT DATA CORPORATION

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Comparison between Kyoto and Paris



Characteristics

- Centralized
- Closed
- Strict spec and periodic review for compliance



Securing overall consistency

	Functional Requirement	Non-functional requirement	Operation & Maintenance
Specification control	-Common specifications (UN Decisions, DES(Data Exchange Standards))		
Reliability	-Reconciliation -Logging	-Redundancy -Backup	-Info. Disclosure (eg. SEF report)
Security	-ID & Password -2 eye principle	-Secure connection	-Use of datacenter -Human check -RSA authentication
Usability	-Electronic application -Payment system connection		

Characteristics

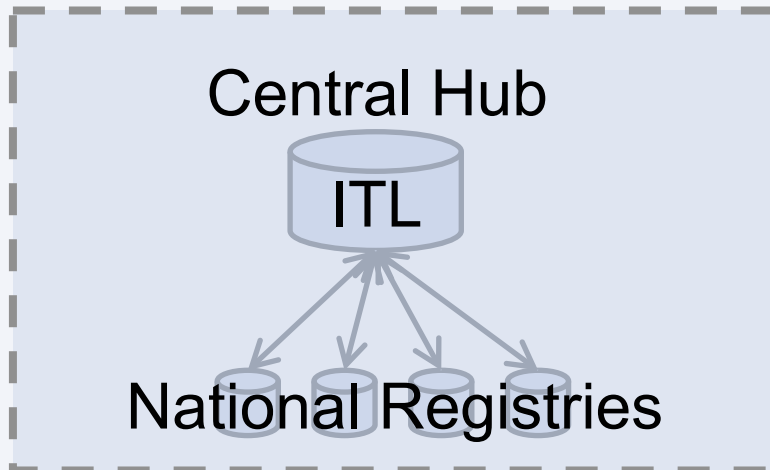
- De-centralized
- Diversity
- Minimum principle (may need to be followed)



Importance of Transparency

- Credit information + additional information
- Traceability architecture
- Security

Kyoto Protocol



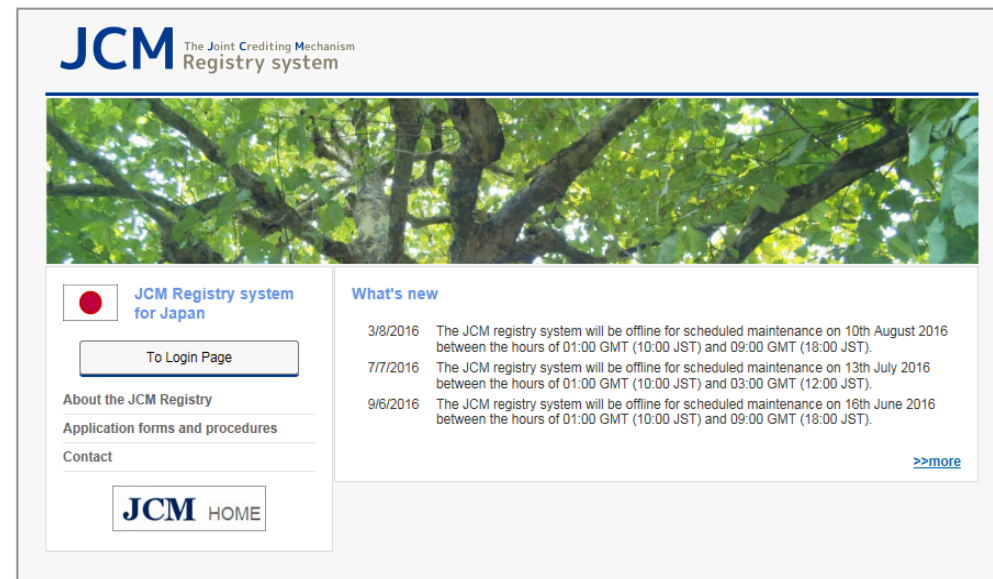
Paris Agreement





Japan's initiative – JCM Registry

- JCM Registry System has the following major functions to ensure reliability of JCM credits
 - Allocating a unique identification number to each JCM credit (1 t-CO2 eq.) which specifies the host country, country of issuance and reference number of the project
 - Opening and managing accounts for holding credits
 - Managing transaction history of credits
- Common specifications agreed with each partner country are followed.
- Each partner country is expected to implement their own registry.



	Functional Requirement	Non-functional requirement	Operation & Maintenance
Specification Control	-Custom Specification		
Reliability	-Logging	-Redundancy -Backup	-Confirm by JC (Joint Committee) -Info. Disclosure
Security	-ID & Password -2 eye principle -2 step authentication	-Secure connection -Other security measure	-Use of datacenter -Human check
Usability		-Web-based	



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