

# TZ1 Registry

Using world leading infrastructure  
to integrate traceability and credibility  
into emerging environmental markets

Ecosystem Markets: Making them work  
Portland, Oregon  
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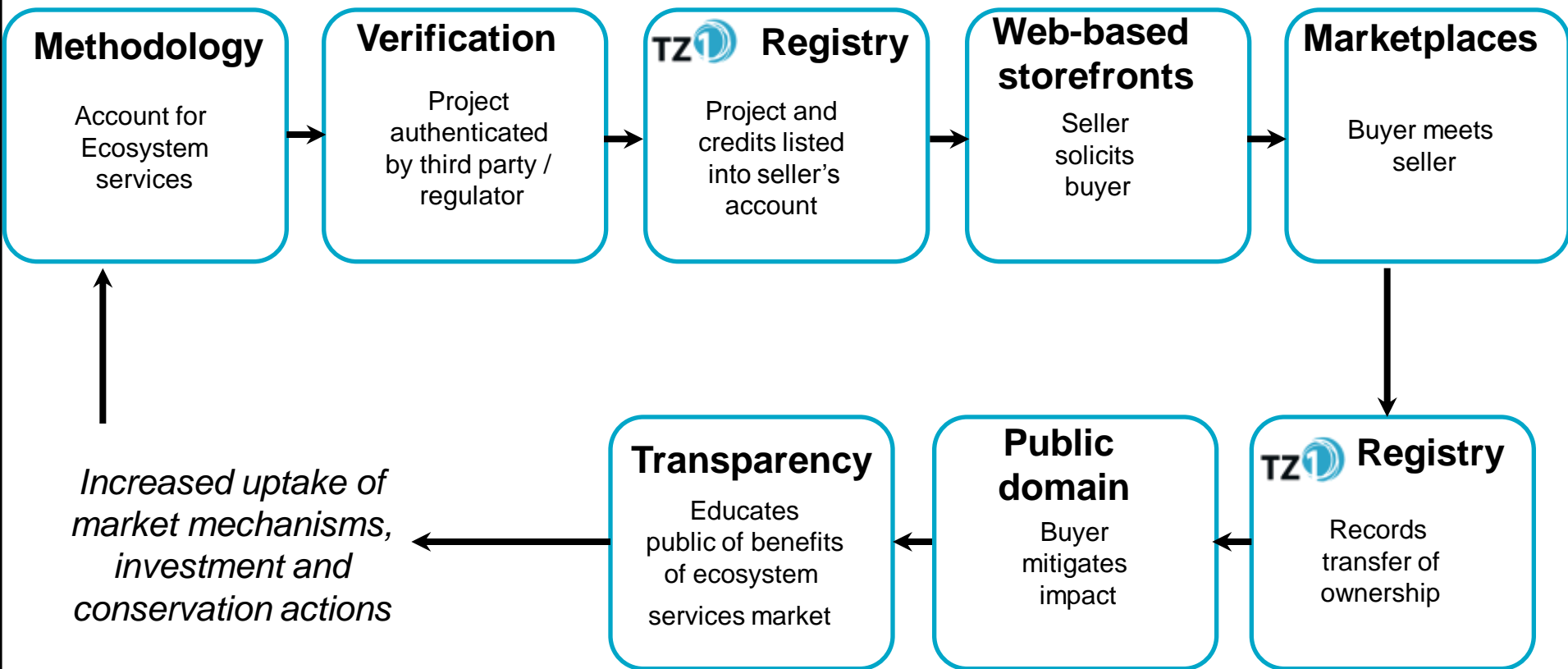
Joanna Silver - Head of Ecosystem Markets, TZ1



# Outline

1. Ecosystem Markets: High level Life Cycle
2. Public view
3. About TZ1
4. Challenges a registry helps solve
5. Opportunities for the market in using a registry

# Ecosystem Markets: Life cycle





# Public View - Carbon Credits

ACCOUNT HOLDERS

REGISTERED PROJECTS

REGISTERED CREDITS

RETIRED CREDITS

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Vintage	Project Name	Project Id	Account Holder	Developer	Validator	Verifier	Origin	Units	Type	Documents
2007	Cenol & Telha Forte Ceramics Switching Non-renewable Biomass Project	CENOLTELHAFORTE	Social Carbon Company	Social Carbon Company	BRTUY	BRTUY	Brazil	34,173	VER**	<a href="#">View</a>
2002	Crop Residue Default Coefficient Protocol	CROPRESIDUEPROTOCOL	Emission Credits International Corp	Emission Credits International Corp	Arcadis Canada Inc	Arcadis Canada Inc	Canada	316,111	VER	<a href="#">View</a>
2003	Crop Residue Default Coefficient Protocol	CROPRESIDUEPROTOCOL	Emission Credits International Corp	Emission Credits International Corp	Arcadis Canada Inc	Arcadis Canada Inc	Canada	339,357	VER	<a href="#">View</a>
2004	Crop Residue Default Coefficient Protocol	CROPRESIDUEPROTOCOL	Emission Credits International Corp	Emission Credits International Corp	Arcadis Canada Inc	Arcadis Canada Inc	Canada	345,599	VER	<a href="#">View</a>
2005	Crop Residue Default Coefficient Protocol	CROPRESIDUEPROTOCOL	Emission Credits International Corp	Emission Credits International Corp	Arcadis Canada Inc	Arcadis Canada Inc	Canada	357,114	VER	<a href="#">View</a>
2006	Crop Residue Default Coefficient Protocol	CROPRESIDUEPROTOCOL	Emission Credits International Corp	Emission Credits International Corp	Arcadis Canada Inc	Arcadis Canada Inc	Canada	357,715	VER	<a href="#">View</a>
2007	Crop Residue Default Coefficient Protocol	CROPRESIDUEPROTOCOL	Emission Credits International Corp	Emission Credits International Corp	Arcadis Canada Inc	Arcadis Canada Inc	Canada	120,689	VER	<a href="#">View</a>
2003	Dajantan Hydro Power Project	DAJANTANPOWER	MGM Worldwide	MGM Worldwide	DNY	DNY	China	1,003	VER*	<a href="#">View</a>
2007	Dajantan Hydro Power Project	DAJANTANPOWER	MGM Worldwide	MGM Worldwide	DNY	DNY	China	8,304	VER*	<a href="#">View</a>
2007	Dajantan Hydro Power Project	DAJANTANPOWER	WagenPlan	MGM Worldwide	DNY	DNY	China	9,759	VER*	<a href="#">View</a>
2007	Enercon Wind Farms (Hindustan) Pvt Ltd	ENERCONWINDFARM1168	Climate Friendly Ply Ltd	Enercon Wind Farms (Hindustan) Pvt Ltd	SGS	DNY	India	15,619	VER*	<a href="#">View</a>
2006	Hunan Anshi Waste Power Generation	HUNANANSHIPWR	Yitol SA	Yitol SA	SGS United Kingdom Ltd	TUY	China	42,753	VER*	<a href="#">View</a>
2007	Hunan Anshi Waste Power Generation	HUNANANSHIPWR	Yitol SA	Yitol SA	SGS United Kingdom Ltd	TUY	China	55,958	VER*	<a href="#">View</a>
2006	Imaos Fredi Ceramic Fuel Switching Project YCS2007.1	IRMAOSFREDI	Social Carbon Company	Social Carbon Company	TuvNord	TuvNord	Brazil	16,497	VER*	<a href="#">View</a>
2007	Imaos Fredi Ceramic Fuel Switching Project YCS2007.1	IRMAOSFREDI	Social Carbon Company	Social Carbon Company	TuvNord	TuvNord	Brazil	24,504	VER*	<a href="#">View</a>
2008	Imaos Fredi Ceramic Fuel Switching Project YCS2007.1	IRMAOSFREDI	Social Carbon Company	Social Carbon Company	TuvNord	TuvNord	Brazil	17,878	VER*	<a href="#">View</a>
2006	Jinshi Hydro Power Project	JINSHIPOWER	MGM Worldwide	MGM Worldwide	DNY	DNY	China	8,627	VER*	<a href="#">View</a>
2007	Krambar Fuel Switching Project	KITAMBARFUELSWITCH	Social Carbon Company	Social Carbon Company	TuvNord	TuvNord	Brazil	40,827	VER*	<a href="#">View</a>

# About TZ1

- World leading multi-credit environmental markets registry
  - **Carbon:** global registry of choice for most carbon standards (VCS, Social Carbon, CCB, ISO etc.) and credits (70% market share)
  - **Biodiversity:** US conservation banking pilot with USFWS, Malua Biobank in Borneo with Equator LLC and New Forests Pty Ltd
  - **Multi credit programs:** Willamette Partnership's Counting on the Environment and The Bay Bank
  - **Water Quality**
  - **Water Quantity**
- => Lead role in developing transparency in US markets



# Q: What challenges can a registry help to solve?

## ***Bankers / Land Owner / Project proponents perspective:***

- Existing infrastructure / processes out of date
- Support efforts of Speciesbanking.com to bring transparency
- Accurate credit balances
- Enhance credibility, remove overselling
- Easier ledger management
- Increase sales
- Stimulate a voluntary market
- Increase capital flows into the market

# Q: What challenges can a registry help to solve?

## *Regulators' perspective:*

- Track credits
- Environmental integrity
- Informed market: accurate balances
- Quality environmental outcomes
- Reduced risks
- Support voluntary markets
- Streamline processes

# Q: What challenges can a registry help to solve?

## *Investors & market commentators' perspective:*

- Track market – transparency
- Trends, churn, volumes etc.
- Accurately model ecosystem markets (not just assume low return, high risk based on opacity)
- Pathway for new players to enter market and provide services

# Common themes

- Tracking credits
- Better efficiencies
- Increasing investment
- Building credibility
- Stimulating sales
- Improving conservation outcomes

# Role of a registry: Tracking credits

- ***Project listing***
  - Loaded into Registry system for issuance
- ***Identification:***
  - Credits issued with serial numbers
- ***Sub-account management***
  - Flexibility track credits for various customers
- ***Traceability:***
  - Credits tracked through life cycle
- ***Ownership:***
  - Accurate real-time balance of credits

# Role of a registry: Supporting market

- ***Marketing:***

Balances are available to advertise

- ***Buying and selling:***

Records transfer of credits

- ***Efficiency:***

Electronic, low cost, online access

- ***Helps manage risk:***

Stringent rules

# Role of a registry: Growing the market

- ***Robustness:***

Rigorous processes

- ***Credibility:***

Prevents over-selling of credits

- ***Transparency:***

Brings vital information to the market

- ***Scalability:***

Helps market on the path to scale

=> *Enhances credibility of conservation actions*

=> *Fortifies the markets for growth*

# Key benefits of a registry: High Level

- Enable actions on land to become tangible assets
- Support accessing multiple values from land
- Create a robust, transparent marketplace
- Integration and low transaction costs
- Transparency and data - volumes, churn, types
- Scalability and replicability, increasing uptake
- Encourage maximum uptake
- Increase strategic investment in areas of need
- Increase conservation actions broadly

**Thank you**

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