

ToIP Ecosystem Use Case

Coloured Gemstone Industry Platform

Use Case Concepts

Coloured Gemstone Industry Platform (CGIP): The CGIP allows for multiple entities along the coloured gemstone mining supply chain to engage with their trade partners in a more efficient and transparent way, from mine to market.

Personas

The following subjects are stakeholders to use case:

- **GCIP** (Convener?) – GCPIP connects the different players in the coloured gemstone eco-system (traders, retailers, miners), via its online platform, services and tools, and is an early mover in leading the digital transformation of the industry.
- **Mine Concession** (user?) – Operates concessions at mines in order to procure gemstones directly at source and own the maximum amount of the supply chain of gemstones extracted from the mine.
- **Sustainability Authority** (issuer? Verifier?) – Works with mine concessions and partners to implement and demonstrate sustainable sourcing and ethical mining best practices.
- **Laboratory** (issuer? Verifier?) – experts in origin and treatment detection of coloured gemstones, provide certificates of origin / authentication.
- **Retailer** (user?) – Typically online retailers, would like to attach various certificates (sustainably / ethically sourced, laboratory authenticated...) to increase the value of the stones authenticity to the stones they sell to respect sustainable mining practices and differentiate their stones from non-verified.

User Stories

- GCIP wants to introduce various trust certificates, e.g. sustainably sourced certificate, trader reputation, laboratory authenticated ..., to show that their platform is leading the industry towards a more transparent and ethical way of working
- **Mine Concession** wants to make the journey of their gemstones from mine to market as efficient as possible and wants certificates which demonstrate commitment to sustainability and ethical sourcing, and which add value to their gemstones via their traceability and authentication certificates.
- **Sustainability Authority** wants to set industry standards, issue certifications and be recognised as a leader in the field
- **Laboratory** wants to demonstrate the highest level of professionalism, and develop a reputation of trust and transparency via its certificates

- **Retailer** wants to know as much information as possible about the gemstones they sell, and demonstrate their commitment to sustainability and ethical sourcing, and add value to their gemstones via their traceability and authentication certificates.

Ecosystem Project Decision Flow

Learn

- GCIP and partners learn about digital trust Ecosystems (benefits, value, ...)
- Review tools, standards, and best practices
- Review compliance, legal and risk implications
- Decision to convene

Convene

- GCIP creates a task force (the "Trusted Gems TF") to help promote sustainably sourced, traceable coloured gemstones. Members include Mines, Sustainability Authority, Laboratories, E-retailer
- GCIP's objective is to introduce the highest levels leverage chamber membership as a means to drive community support of member businesses. Specifically, as a convener she desires to transform the print based loyalty program to:
 - Reduce friction
 - Set industry standards
 - Demonstrate the highest level of trust on their platform
 - Attract more customers
- Based on GCIP's learning activity, they have decided that a ToIP Ecosystem Project is applicable to the GCIP objectives.

Define

- The Trusted Gems TF gathers to:
 - Articulate the scope for the further development and governance of a platform and partnerships
 - Define the methods necessary to ensure reliable digital exchange of gemstone-related data and certificates
- Establish key performance indicators to measure and improve results

Create

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Note: This section needs to be expanded into a decision-tree for a variety of process questions/answers.

Implement

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Grow

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