

Technology update

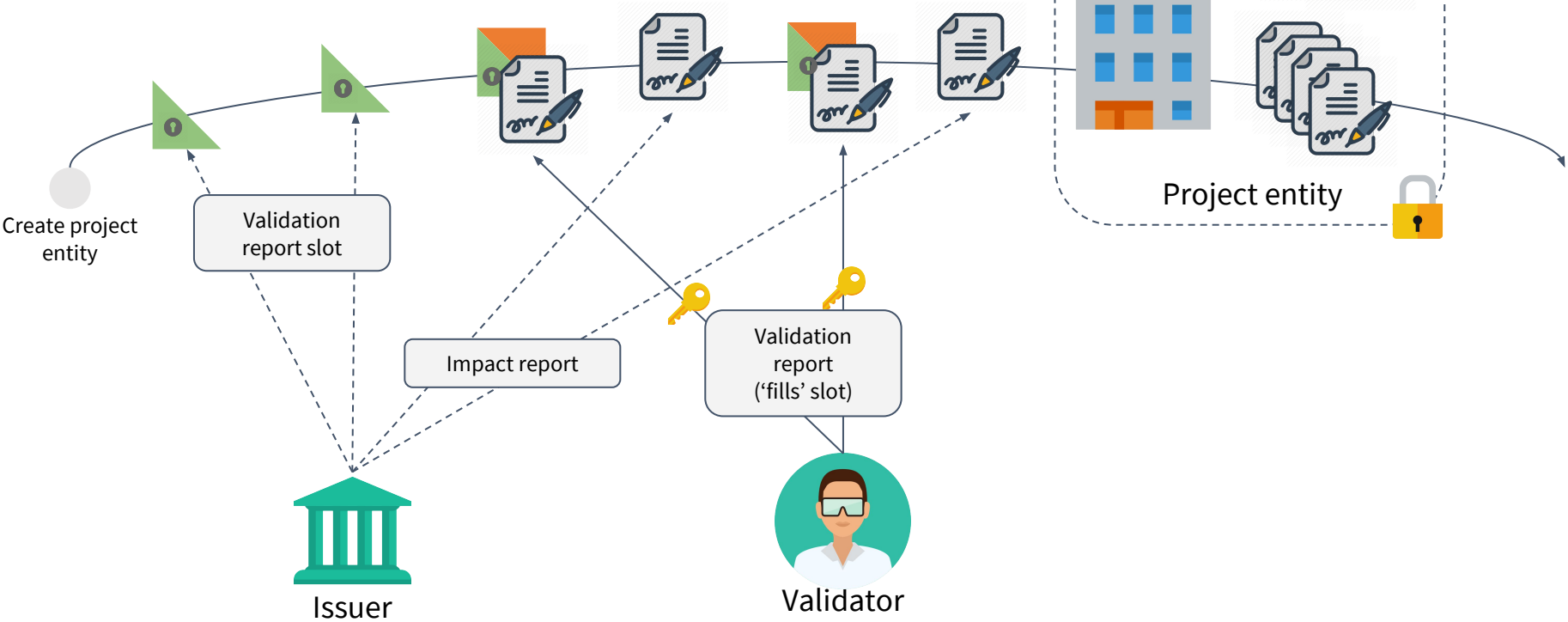
Design decisions and prototype progress



Terminology - Validation

Green finance	Technology
Green bond framework	Frameworks are a parent category for commitments and reports which can define rules for child objects to a lesser or greater degree
Commitments	Soft commitments which are general with regard to projects: “all buildings will achieve LEED Gold certification”
Green project specifics prior to implementation	Hard commitments which are specific with regard to projects: “building x will achieve LEED Gold certification”. They consist of “report slots” which dictate the format of a subsequent report, and who may submit it.
Reports about green projects	Reports which fill report slots, and fulfill hard commitments. They are submitted in accordance with the requirements of the report slot: “validator y asserts that the attached document is a LEED certificate with a Gold rating and that it applies to building x”.

How it works



Validation commitments and reports

Pilot	Commitment	Soft commitment	Hard commitment (report slot)	Validation object (report)	Source of report (validator)
Green building company	Green buildings	All projects will be certified Gold by LEED	Building X will receive a LEED Gold certificate	LEED Gold certificate for building X	LEED or pilot company
Green investment manager	Preserve forest	Satellite images will demonstrate preserved forest	Satellite images of GPS coordinates X will demonstrate preserved forest	Report from eomapper with satellite images for coordinates X	GIB or pilot company
Integrated solar company	Building integrated solar	Electricity will be generated by solar units integrated into structures	A statement from a local energy company will show that building X is generating electricity	Document from local energy company for building X	Energy company or pilot company
Large scale solar company	Large scale solar	An area of solar panels will be deployed and will generate electricity	Satellite images and a statement from local energy company will show that solar panels have been deployed and are generating electricity	Report from eomapper with satellite images for coordinates X and document from local energy company	GIB + Energy company or pilot company

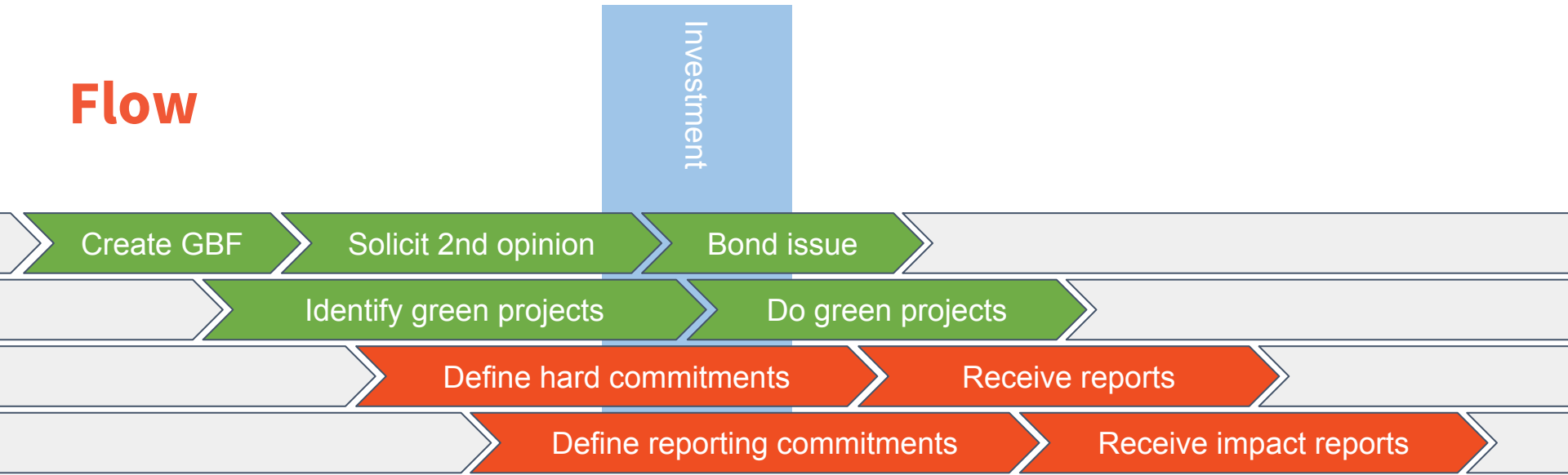
Terminology - Impact

Green finance	Technology
Green bond framework	Frameworks are a parent category in the system for impact reports
Reporting commitments	Soft commitments which are general with regard to projects and detail in a non-binding way the commitments that the issuer has made about the format and frequency of impact reports
Impact reports	Impact reports which do not require a report slot, and are not “validated”, although there may be requirements about format and frequency such that impact reports cannot be submitted for the same project twice in the same year for example. The scope of the project currently extends to two forms of impact report: energy generation in kWh, and emission avoidance in tonnes of CO2.

On chain/off chain

Stored in Postchain	Not stored in Postchain
Bond and project objects	Investor identities
Frameworks	Descriptions, images, non-essential documents
Validation objects: report slots and reports	Portfolio details - bonds, holdings, etc.
Impact reports	Soft commitments
Issuer and validator identities	

Flow



Lifecycle engagement with processes which are ultimately cyclical.

Modularity: issuers choose level of engagement

Blockchain allows for longevity and consistency across a changing design space.

Investor workflow



Track record for green actors, evaluate trust

Compare commitments on ambition and rigour

Speculative and real evaluation of impact through portfolio(s)