

PROJECT SINKHOUSE



CABINSCAPE

RAW

THE CARBON CYCLE PROJECT SINKHOUSE

Carbon Negative

Removing CO² from the atmosphere for a net carbon reduction and positive climate change

Carbon Sink

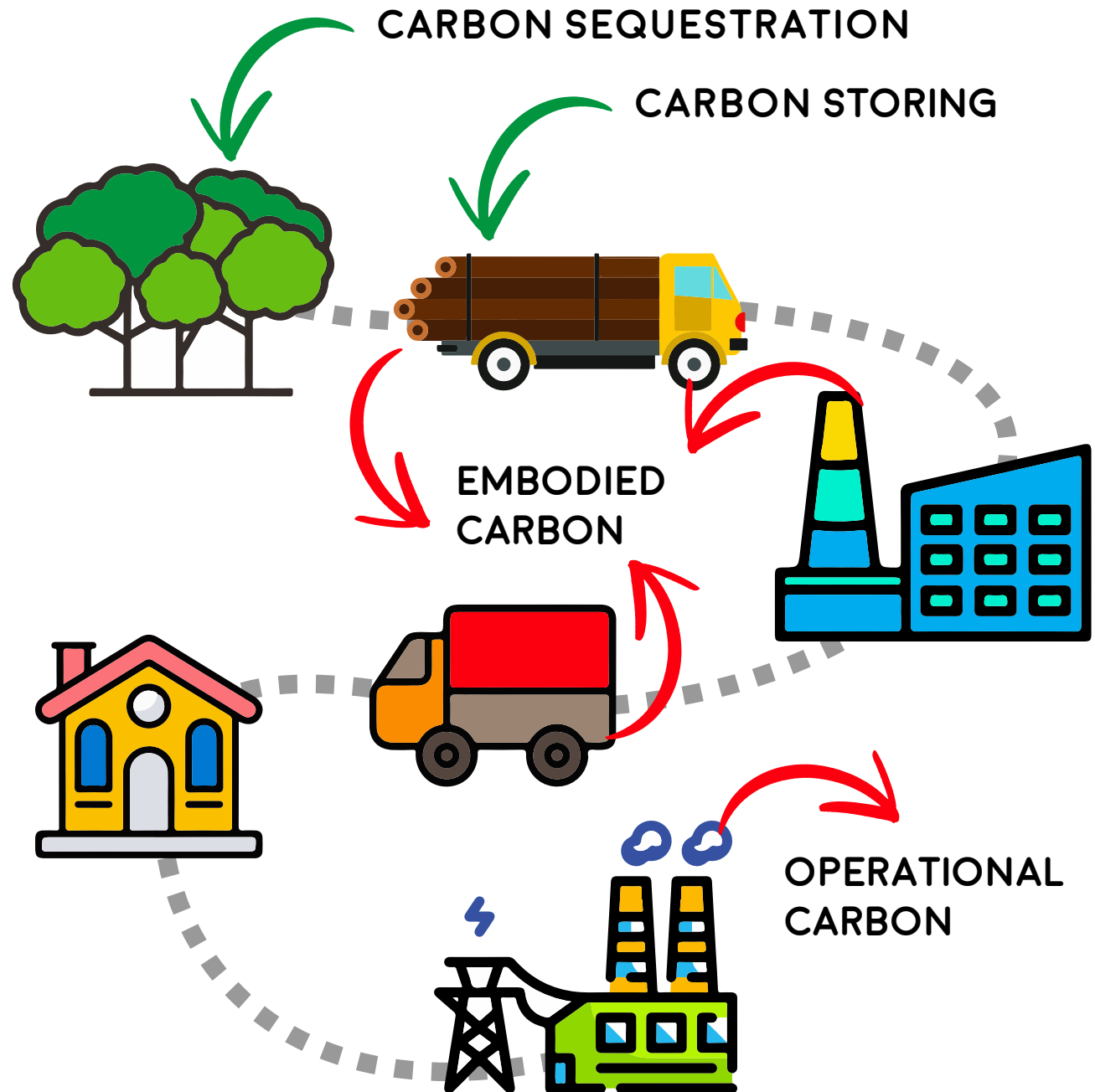
Anything that absorbs more carbon from the atmosphere than it releases, also *carbon sequestration*

Operational Carbon

The net carbon emissions from all energy sources used to heat, cool, ventilate, light and power buildings

Embodied Carbon

Embodied carbon is the net emissions of green house gases used to mine, log, harvest, extract, process, manufacture, transport and assemble a built unit



SUMMARY

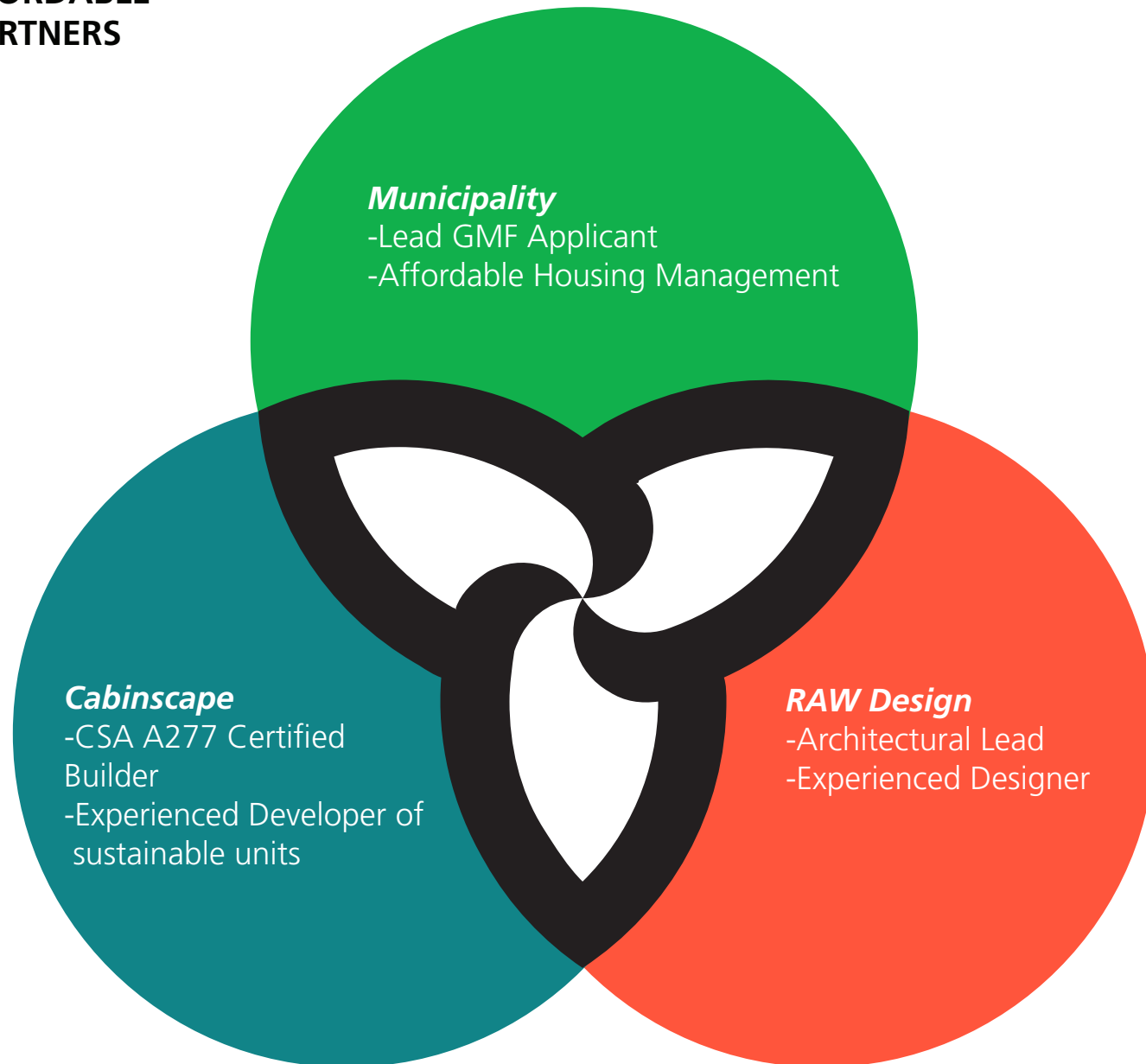
PROJECT SINKHOUSE

- Proposing a pilot development of two **carbon negative**, manufactured homes
- Go beyond the required standards and produce a "**carbon sink**", net negative manufactured home
- Partner with municipalities, conduct real world testing
- Existing provincial level code developments focus on energy efficiency and **operational carbon**
- Embodied carbon** is quickly becoming an important topic
- Functional testing and follow up analysis will be fed back to finalize a proven design
- Create a best in class approach to, environmentally responsible, affordable manufactured home fabrication, community design and municipal level regulatory approaches



HOW WE FIT TOGETHER

SUSTAINABLE/AFFORDABLE DEVELOPMENT PARTNERS



MUNICIPAL PARTICIPATION

PROJECT SINKHOUSE

Green Municipal Fund Application

- Green Municipal Fund (**GMF**) | municipality must be the lead applicant.
- Cabinscape and RAW to complete application and supporting documentation
- Disbursement of funds flow through the municipality.

Affordable Housing Partner

- Final built unit becomes an asset managed by a municipal department or partner
- The rental and management of the units then falls under **affordable housing** entity

Supporting Financing

- GMF will cover up to 80% of the cost to develop
- 20% be provided by the partner who obtains the asset
- Alternatively, municipal level grant or subsidy program fills remaining 20%

Energy/Carbon Efficiency Incentives (optional/encouraged)

- Progressive municipalities are beginning to reward responsible building
- Encourage the learnings from this program to inspire similar incentives

GMF

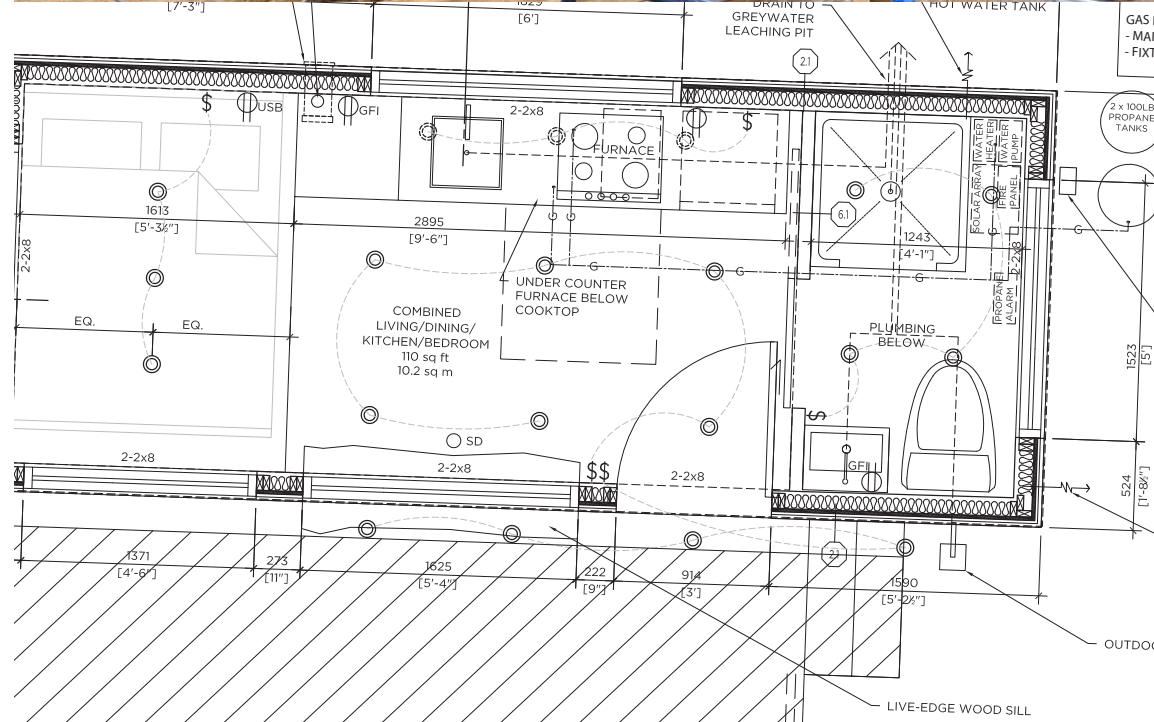
GMF helps local governments switch to sustainable practices faster. Their unique mix of funding, resources and training gives municipalities the tools they need to build resiliency — and create better lives for Canadians.

Affordable Housing

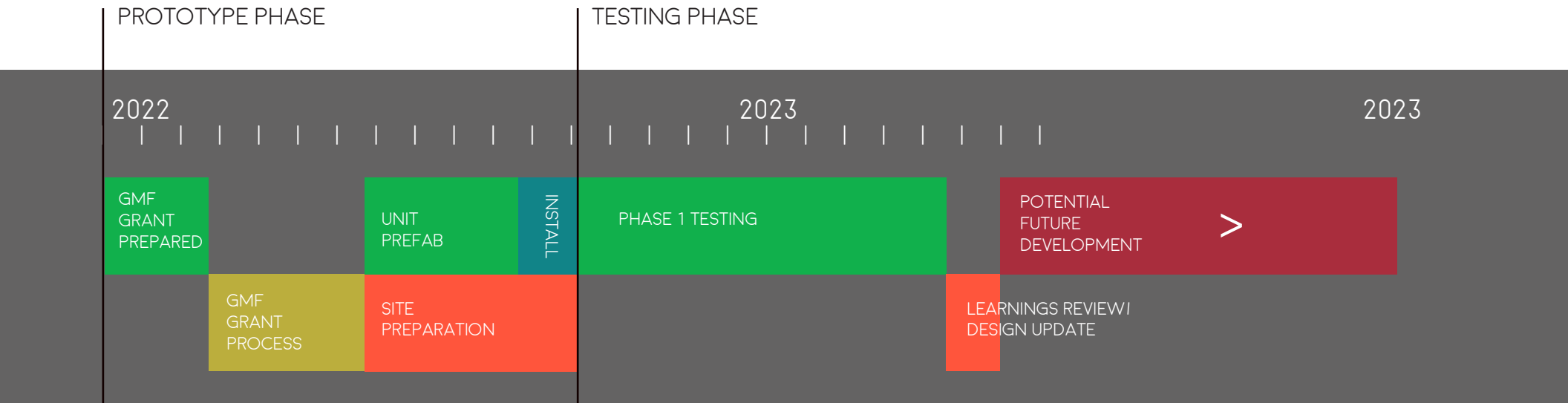
Affordable Housing as per the GMF is 80% of market value

EXISTING DESIGN IMPROVING ON EXISTING STANDARDS

- World's first off grid CSA A277 certified manufactured homes
- The existing "Penner" model is fully code compliant as an A277 unit
- Select lower carbon materials
- Increase solar and remove dependency on fossil fuels



PROPOSED SCHEDULE



GMF GRANT PREPARED

Initial phase of GMF grant including “pre-proposal”

GMF Grant Process

Full grant application, including technical drawings, updates, site plans and full development schedule.

Unit Prefab / Site Preparation

Fabrication of units and site preparation (clearing, pads prepared, well drilling, etc)

Install

Installation of unit and final permitting

Phase 1 Testing / Learnings Review

Live-in testing and review/feedback process

COST BREAKDOWN

2 CABIN PILOT PROJECT

TOTAL COST \$473.000

ADMIN / PROJECT MANAGEMENT |

ACCOUNTING / GRANT PREP / PM

\$47.000

DEVELOPMENT |

SITE DEVELOPMENT / PREPARATION

\$78.000

CONSULTING & ENGINEERING |

DESIGN, MODELING AND TESTING

\$101.000

FABRICATION |

HOUSING BUILD

\$247.000

FINANCING

HOUSING

PARTNER

\$94.600

GREEN

MUNICIPAL

FUND

\$378.400

THANK YOU

PLEASE REACH OUT

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