

ENVISION CREDIT NAVIGATOR

Welcome to the Envision Credit Navigator Tool

The intent of this document is to help owners and project teams understand at what stage of project development they might look at criteria within Envision credits to maximize opportunities to increase sustainable performance.

Each Envision project takes its own path—much like a “choose your own adventure” story. Envision reflects that reality: each of its 64 credits requires thoughtful consideration of how it applies to the project and how it can add value to outcomes. While the framework is complex, it is also a powerful tool for guiding teams through the capital delivery process in ways that reduce risk, build consensus, and strengthen long-term performance.

This mapping effort serves as an “atlas” of potential routes, illustrating how credits and criteria may be introduced, revisited, and integrated across project phases. Beginning in project **initiation and feasibility**, Envision helps identify community values, align with policies and funding priorities, and support early stakeholder engagement—laying the groundwork for smoother approvals and clearer project justification. Lifecycle cost considerations introduced at this stage also provide a lens for reducing financial risk and optimizing investment decisions.

In **planning and programming**, Envision supports defining project goals, prioritizing investments, and comparing alternatives—reinforcing its central principle of not only building the project right, but building the right project. As projects advance into **preliminary design**, the framework encourages conversations about topics that might otherwise be overlooked, ensuring early commitments are revisited and validated as designs evolve. During **design development and construction documentation**, sustainability objectives are woven directly into plans and specifications, reducing the likelihood of costly redesigns or missed opportunities. Finally, during **construction**, Envision provides a structure for ensuring delivery stays aligned with the project’s goals, strengthening accountability and performance.

Environmental considerations and **stakeholder engagement** are cross-cutting topics that span phases and influence numerous credits. Related credits are both notated with icons (see ‘Navigating the Navigator’) and highlighted in their own sections of the tool.

This tool makes the process more transparent by showing where credits may come into play, which criteria need sustained attention, and how project components fit together. Ultimately, while each project team defines its own path by selecting relevant credits and levels of achievement, the navigator highlights opportunities, critical decision windows, and the progression of Envision criteria—helping teams capture benefits early, minimize risks, and maximize project value.

Note that the criteria information most often uses terms like *review*, *assess*, *consider*, *plan for*, *document*, etc., to provide flexible guidance for project teams in starting and substantiating conversations and activities that happen as the project progresses.

Navigating the Navigator

The Capital Delivery Process is broken out into the following phases:

- Initiation / Project Feasibility
- Planning / Programming
- Preliminary Design
- Design Development / Construction Documents
- Construction

Page 2 shows a mapping of where each credit could be considered throughout the capital delivery process. The first instance of the credit is shown with a dark background and subsequent instances of credit with light background, as shown below:



Each phase has a dedicated page that shows related credits with details on which criteria and activities might be beneficial during that phase.

Following the phases, there are pages that show how each credit progresses through all the phases.

Navigation is provided at the top of each page to move from section to section and back to the overview.

The credits are also categorized to show the following:

- Credit has a *stakeholder engagement* component.
- Information related to the content of the credit may be included in an *environmental assessment* or similar document.
- Credit has a *construction-related* component.



KEY POINTS

- It is beneficial to begin using Envision early in the process. There are criteria that could become irrelevant once the project progresses to later stages of development.
- There are credits that have dependencies – one thing needs to be done in an earlier phase so something can be done in a later phase.
- Credits used for assessments during planning and preliminary design also often have design components or construction-related guidance that may need to be incorporated into construction documents.

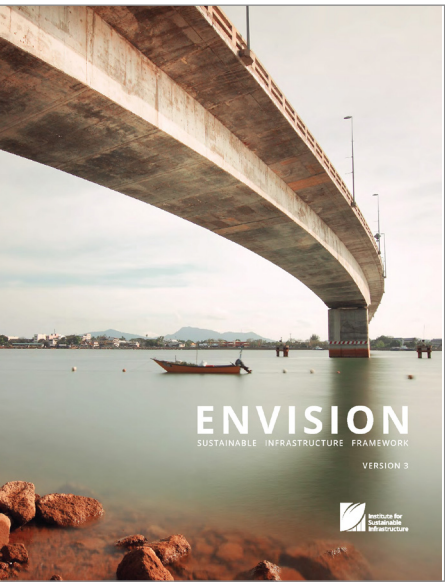
Tools & Resources

The first step to accessing ISI and Envision resources is creating a free account at sustainableinfrastructure.org.

Instructions for creating an account can be found under Resources > Creating an Account.

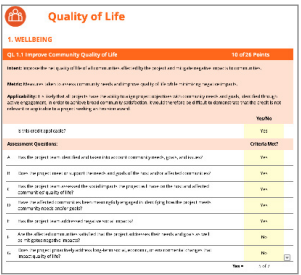
ISI Membership puts you in direct contact with like-minded organizations. Members receive opportunities for collaboration, as well as discounts for credentialing and project verification.

Envision Sustainability Professionals (ENV SP) support the Envision framework. The ENV SP credential equips practitioners with the knowledge needed to apply groundbreaking Envision concepts to daily work, making infrastructure projects more sustainable, resilient, and equitable.



The **Envision Guidance Manual** is the primary resource for the Envision framework and the official reference for project assessments. It describes the Envision framework in detail and provides best practices for performance improvements in sustainability.

To access this resource, you need a free ISI account. The guide is located on the ISI account dashboard, under Resources > Envision.



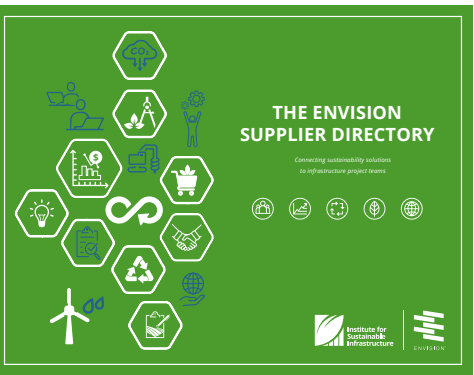
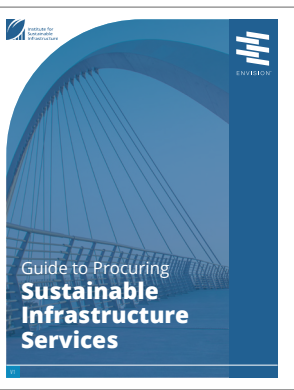
The **Envision Pre-Assessment Checklist** is intended to support incorporating Envision early in the pre-design and planning phases. An Excel-based tool, it uses yes/no questions based on the evaluation criteria found in the Envision Guidance Manual. It is also an educational tool designed to help Envision users become familiar with the sustainability aspects of infrastructure planning, design, and construction. The checklist can be used to quickly compare project alternatives before key project decisions have been finalized. It can also help project teams quickly identify whether they are addressing the full range of criteria that will later form the foundation of an Envision assessment.

To access this resource, you need a free ISI account. The guide is located on the ISI account dashboard, under Resources > Envision.

The **Guide to Procuring Sustainable Infrastructure Services** is designed to assist project owners in procuring Envision-related services to support the sustainability of infrastructure projects.

- ✓ Provides guidance on integrating sustainability and the Envision framework into projects of all types
- ✓ Covers best practices for assembling qualified sustainability teams, implementing Envision throughout the project lifecycle, and managing the verification process for Envision awards
- ✓ Offers practical advice and example procurement language to use when seeking services

To access this resource, you need a free ISI account. The guide is located on the ISI account dashboard, under Resources > Procurement Resources.



The **Envision Supplier Directory** provides an opportunity for suppliers to highlight their sustainable materials and services for an audience that is seeking sustainable solutions, and provides a resource for project teams looking to identify materials, products, services, and technologies that can help solve specific sustainability challenges.

The **Applicants Course** is a live virtual training that offers a closer look at Envision project verification, providing participants with an in-depth understanding of the tools, resources, and systems available to support a successful Envision verification process. It is led by ISI verification specialists and designed for individuals who already have their ENV SP credential and are preparing to support an application for project verification.

The course is offered quarterly, and participation fulfills five elective hours and two prescribed hours toward ENV SP credential maintenance. You need to log in to your ISI account to register.

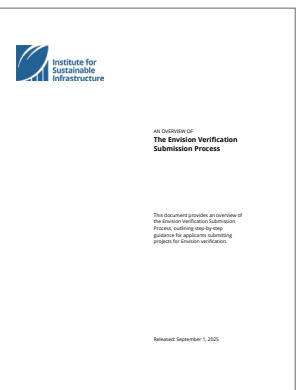
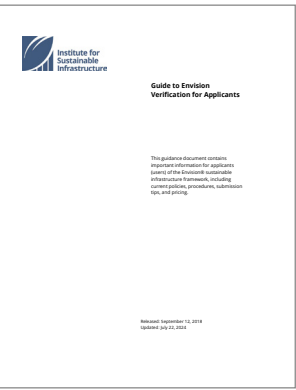


The **Guide to Envision Verification for Applicants** contains important information for applicants (users) of the Envision Sustainable Infrastructure Framework, including current policies, procedures, submission tips, and pricing.

To access this resource, you need a free ISI account. The guide is located on the ISI account dashboard, under Resources > Verification Resources.

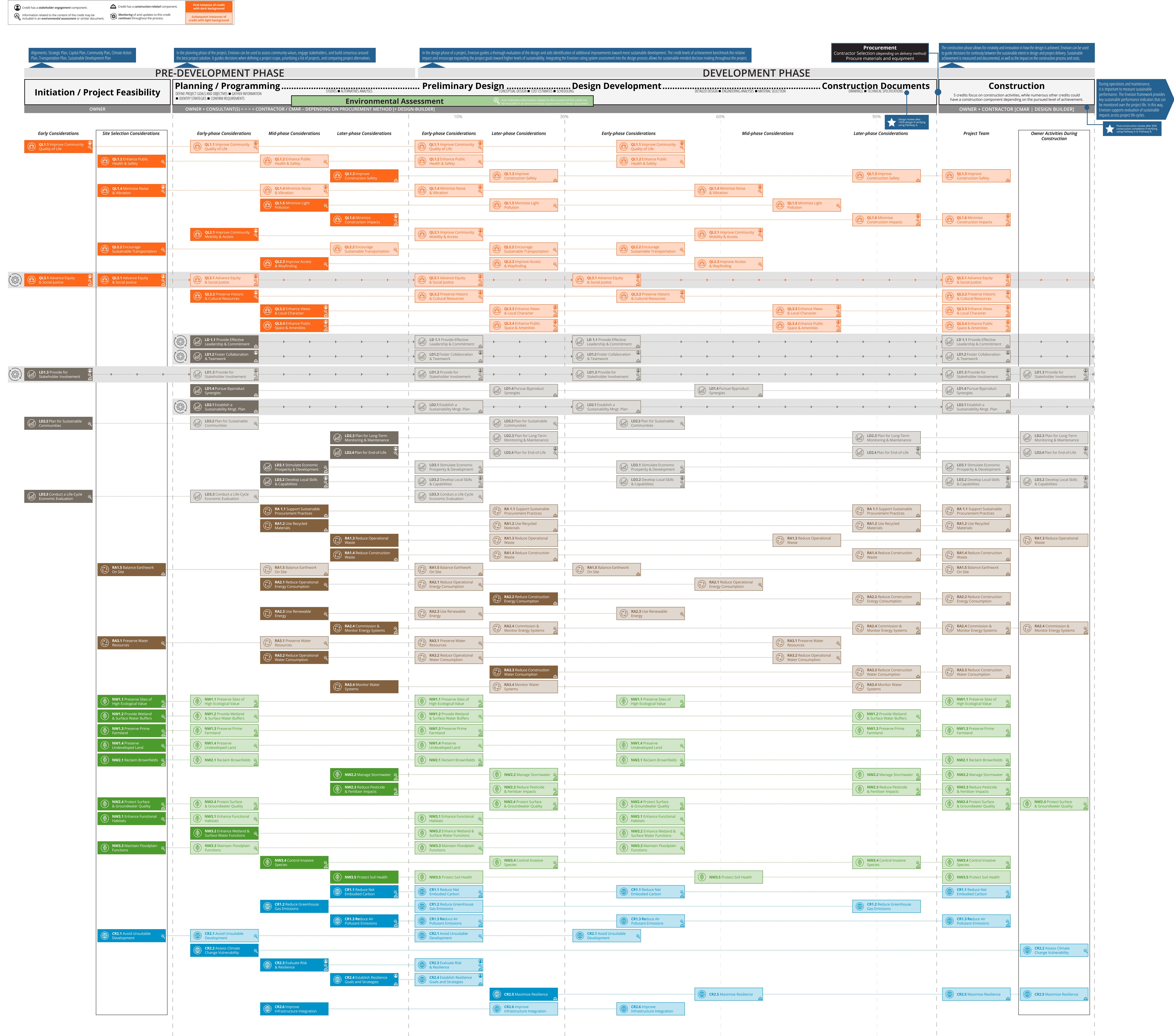
The **Envision Verification Submission Process** document provides an overview of the process, outlining step-by-step guidance for applicants submitting projects for Envision verification.

To access this resource, you need a free ISI account. The guide is located on the ISI account dashboard, under Resources > Verification Resources.



Envision Across the Capital Project Development Process – Visualizing Integration from Conception to Completion

The intent of this timeline is to help owners and project teams understand at what stage of project development they might look at criteria within Envision credits to maximize opportunities to increase sustainable performance.



Initiation / Project Feasibility

Envision can be used during the Pre-Development Phase when initiating and defining a project and considering feasibility, site selection, rights acquisition, and risk identification

PROJECT INITIATION AND FEASIBILITY – EARLY CONSIDERATIONS

During **project initiation and feasibility discussions**, Envision can be used to assess community values, begin to engage stakeholders, align with existing policies and plans, and assess lifecycle considerations. The following credits include criteria that may be helpful with these activities.

 **QL1.1** Improve Community Quality of Life

A. Review community planning information and assess relevant community needs, goals, and/or issues.

B. Compare project vision and goals to community needs, goals, and/or issues.

C. Begin to assess the project's social impacts on host and affected communities.

D. Begin to engage with affected communities.

 **QL3.1** Advance Equity & Social Justice

A. Review the historic context of equity and social justice within the affected communities; consider how this might inform the stakeholder engagement process.

B. Begin to assess the project's social impacts on host and affected communities.

 **LD1.3** Provide for Stakeholder Involvement

A. Perform stakeholder mapping.

B. Begin to formulate stakeholder engagement plans.

 **LD2.2** Plan for Sustainable Communities

A. Identify sustainability indicators or outcomes that will be used as part of project selection/identification.

B. Conduct alternative analyses on sustainability performance during project identification.

C. Consider the project's broader impacts on the long-term sustainability of the community or region.

E. Consider if the project could address or correct an existing unsustainable condition within the community.

 **LD3.3** Conduct a Life-Cycle Economic Evaluation

A. Conduct a life-cycle cost analysis to identify the financial impacts of the whole project.

C. Begin to map the project's or project alternative's social, environmental, and financial costs and benefits.

SITE SELECTION

A number of Envision credits include criteria that may offer guidance that could be considered during the **site selection** process. Note that these considerations are not relevant to every project.

 **QL1.2** Enhance Public Health & Safety

B/C/D. Consider if project siting could avoid or minimize risks to health or safety; or improve health and/or safety for the project's immediate surroundings or the broader community.

E. Consider if the project siting could cause health and safety risks and impacts to be disproportionately borne by one community over another.

F. Consider if the project siting options could provide critical infrastructure services to communities experiencing, or at risk of experiencing, imminent, negative health and/or personal safety/impacts.

 **QL1.4** Minimize Noise & Vibration

A/B. Consider how project siting could cause the potential for operational noise impacts on the surrounding community and/or environment, including siting to reduce noise impacts.

 **QL2.2** Encourage Sustainable Transportation

A. Consider if/how project siting could provide convenient access to active, shared, or mass transportation options.

D. Consider how the project might contribute to a community or regional integrated active, shared, or mass transportation strategy.

 **QL3.1** Advance Equity & Social Justice

B. Consider the social impacts that project siting could have on host and affected communities.

G. Consider if project siting could positively address or correct an existing or historic injustice or imbalance.

 **RA1.5** Balance Earthwork On Site

A. Consider if project siting could reduce the amount of excavated soil and/or fill needed to prepare the site.

 **RA3.1** Preserve Water Resources

A. Consider the site's location and context within the watershed.

 **NW1.1** Preserve Sites of High Ecological Value

A. Consider if there may be areas of high ecological value on or near potential sites.

C/E. Consider siting the project to avoid developing or disturbing areas of high ecological value.

 **NW1.2** Provide Wetland & Surface Water Buffers

A. Consider how potential project site locations are in relation to wetlands and surface waters.

D. Consider siting the project to avoid wetlands and surface waters.

E. Consider if there are opportunities to return previously developed or disturbed sites to a natural state.

 **NW1.3** Preserve Prime Farmland

A. Consider how potential project site locations are in relation to prime farmland.

B/D. Consider siting the project to avoid developing or disturbing prime farmland.

 **NW1.4** Preserve Undeveloped Land

A. Consider options for siting the project on previously developed land.

B. Consider if there are opportunities to return previously developed areas to a condition that supports natural open space, habitat, or natural hydrology

 **NW2.1** Reclaim Brownfields

A. Consider if there are options for siting the project on a site identified as a closed or active brownfield.

C. Consider mitigating or remediating a brownfield site.

 **NW2.4** Protect Surface & Groundwater Quality

A. Consider the potential for the site to contribute to surface water and/or groundwater contamination during construction and/or operations.

C. Consider siting the project to avoid groundwater recharge areas.

 **NW3.1** Enhance Functional Habitats

C. Consider siting the project to avoid areas of important habitat.

 **NW3.3** Maintain Floodplain Functions

A. Consider the location of potential project sites relative to the 100-year or design floodplain.

B. Consider how project sites can avoid natural/vegetated zones within the floodplain.

D. Consider siting the project to avoid floodplains.

 **CR2.1** Avoid Unsuitable Development

A. Consider potential siting hazards such as steep slopes, permafrost, adverse geology, flood-prone areas, and at-risk coastline.

B. Consider siting alternatives that avoid or minimize hazard exposure and/or project alternatives less vulnerable to, or likely to exacerbate, site hazards.

E. Consider siting the project to avoid site hazards.

Preliminary Design

PRELIMINARY DESIGN – LATER-PHASE CONSIDERATIONS

Credit has a stakeholder engagement component.	Credit has a construction-related component.	First instance of credit with dark background
 Information related to the content of the credit may be included in an environmental assessment or similar document.		Subsequent instances of credit with light background

In the design phase of a project, Envision guides a thorough evaluation of the design and aids identification of additional improvements toward more sustainable development. The credit levels of achievement benchmark the relative impact and encourage expanding the project goals toward higher levels of sustainability. Integrating the Envision rating system assessment into the design process allows for sustainable-minded decision making throughout the project.

Design Development / Construction Documents

Envision can be used during the Design Development / Construction Documents phase to incorporate strategies and designs that improve project sustainability and provide guidance and requirements to implement improvements during construction.

DESIGN DEVELOPMENT / CONSTRUCTION DOCUMENTS – EARLY-PHASE CONSIDERATIONS

LD 1.1 LD 1.1 Provide Effective Leadership & Commitment A. Continue to engage with affected communities. Collect, evaluate, and incorporate community input into the design process. E. Incorporate design considerations to mitigate negative impacts. F. Collect feedback from stakeholder engagement demonstrating community satisfaction with the process. G. Incorporate design considerations to address identified long-term TBL changes.	LD 1.2 LD 1.2 Foster Collaboration & Teamwork A/C. Continue meetings to identify opportunities for improved transparency and reducing design conflicts. B/D. Document project improvements or increased performance that can be attributed to the interdisciplinary collaborative process, including in later project phases (construction/operations).	LD 1.3 LD 1.3 Provide for Stakeholder Involvement B. Execute engagement plans that document stakeholder participation and engagement as it occurs. C. Continue project team lead person and public involvement lead/manager involvement. D. Document how stakeholder feedback changed, impacted, and/or altered project plans, design, and/or decision making. E. Solicit and collect feedback from stakeholders supporting the project's engagement process undertaken and acknowledging that decisions that were made based on their input. F. Engage with stakeholder partners.	LD 2.1 LD 2.1 Establish a Sustainability Mgmt. Plan A. Update SMP, including organization chart(s). B. Update SMP. C. Update SMP. Incorporate specification requirements related to tracking and implementation of the sustainability management plan during construction, including communication of sustainability goals. D. Monitor and report progress against the plans goals and the public, by generally improving the socioeconomic conditions of the community. E. As part of SMP Update, review key design variables for changes and adjust if needed.	LD 2.2 LD 2.2 Plan for Sustainable Communities E. Implement project designs that address negative impacts, create sustainable condition within the community.	LD 2.3 LD 2.3 Stimulate Economic Prosperity & Development A. Update the estimated number and type of jobs created during the design, construction, and operation, as needed. D. Integrate project designs that improve community attractiveness for business, industry, or the public, by generally improving the socioeconomic conditions of the community. E. Incorporate project designs or configurations that could create economic impacts beyond the project scope.	LD 2.4 LD 2.4 Develop Local Skills & Capabilities B/D. Develop and implement project training programs to create identified skill or capability gaps. Include focus on economically distressed, underemployed, or disadvantaged communities, as appropriate. C. Develop plan for continuing training or education programs (criterion B) after project delivery.
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RA 1.5 RA 1.5 Balance Earthwork On Site B. Incorporate design considerations that balance cut and fill on site to the extent practical. If cut or fill is needed, consider locations close to the project site for sourcing or disposal. Specify contractor requirements related to documenting and calculating the percentage of excavated materials brought to or taken from the site.	RA 2.3 RA 2.3 Use Renewable Energy A. Incorporate designs that supply renewable energy for project use. Document renewable energy sources by type. Confirm calculations from all renewable sources and resulting overall percentage of renewable energy to total energy consumption.
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NW 1.1 NW 1.1 Preserve Sites of High Ecological Value B. Update site plan related to proximity of project and temporary work of site of ecological value. Confirm that the capacity of ecological sites will not be diminished as a result of construction activities. C. Specify mitigation measures to protect areas of high ecological value. Confirm that the zone provides effective protection. D. Update site map related to the protective zone for areas of high ecological value. Confirm that the zone provides effective protection. F. Incorporate project designs that increase or restore areas of high ecological value. Confirm locations and update descriptions for restoration methods and materials.	NW 1.4 NW 1.4 Preserve Undeveloped Land B. Incorporate designs that return previously developed areas to a natural state that supports natural open space, habitat, or natural hydrology. Include site plan that shows areas returned to natural state.	NW 2.1 NW 2.1 Reclaim Brownfields C. Incorporate mitigation and remediation plan into design. Incorporate construction phase monitoring specifications. Develop post-construction phase monitoring and remediation plans.	NW 2.4 NW 2.4 Protect Surface & Groundwater Quality B. Specify requirements for construction spill and leak prevention and response plans. As needed, specify requirements for placement of materials storage piles and handling of potentially polluting runoff. C. Incorporate project designs to reduce the risk of surface water and/or groundwater quality degradation. D. Incorporate equipment and/or software to monitor surface water and/or groundwater quality, and/or contaminant sources. E. Incorporate project designs that eliminate the need for a hazardous or potentially polluting substance or material. F. Incorporate project designs that improve overall water quality on site, or in the watershed.	NW 3.1 NW 3.1 Enhance Functional Habitats B. Incorporate project designs that mitigate identified impacts or barriers to terrestrial habitats. Develop a monitoring plan to ensure that mitigation measures are effective for preserving habitat quality and connectivity. C. Incorporate project designs that increase the quantity of terrestrial habitat. Confirm the species that will benefit from new habitat. D. Incorporate project designs that improve the quality of terrestrial habitat. Develop a monitoring and maintenance plan to ensure the measures put in place to improve habitat quality are meeting their performance targets. E. Incorporate project designs that provide new connections between habitats or remove existing barriers to movement and habitat connectivity. Consider a monitoring plan to confirm improved habitat connectivity. F. Incorporate project designs that return previously developed land to a natural state that supports habitat development.	NW 3.2 NW 3.2 Enhance Wetland & Surface Water Functions B. Incorporate project designs that minimize disturbance to wetland and surface water functions and/or compensate for unavoidable losses in wetland and surface water functions. C. Incorporate project designs that protect or restore hydrologic connection. D. Incorporate project designs that protect or restore water quality. E. Incorporate project designs that protect or restore the habitat for aquatic and riparian species using plantings and appropriate physical modifications. F. Integrate designs that protect or restore sediment transport. Plan for/ specify removal or mitigation for existing sources of sediment disturbance or sedimentation, if needed.	NW 3.3 NW 3.3 Maintain Floodplain Functions B. Implement project designs that preserve vegetated zones within the floodplain. Update site maps indicating the area of natural/vegetated zones within the floodplain before and after project development. Confirm calculations of the percentage of vegetated area after development. C. Incorporate project designs that preserve floodplain conveyance and floodplain storage, and provide functions comparable to their original function. D. Incorporate project designs that remove structures from the floodplain or return previously developed areas to a vegetated state. Develop site maps showing structures or impervious/vegetated zones within the floodplain after the project development.
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CR 1.1 CR 1.1 Reduce Net Embodied Carbon A. Incorporate project designs using strategies/plans to reduce net embodied carbon and specify use of low embodied carbon materials. Update list of primary materials. Estimate materials quantities and embodied carbon estimates. B. Update embodied carbon calculations for primary contributors to carbon intensity over the life of the project (construction and operations) identified in criterion A. C. Incorporate project designs using strategies/plans to reduce net embodied carbon and specify use of lower embodied carbon materials. Update calculations of reductions in embodied carbon.	CR 1.3 CR 1.3 Reduce Air Pollutant Emissions A. As needed, incorporate design elements, control systems, or best management practices that enable the project to meet relevant minimum air quality standards and regulations. Document that the project has met or will meet all relevant standards and regulations. B. Incorporate best available control systems or best management practices to reduce air pollutant emissions during operations. Update calculations of annual air pollution emissions over the life of the project. C. Incorporate processes, procedures, or systems designed to identify and address changes in emissions in order to maintain performance. D. Incorporate specifications that limit the use of, or control the exposure to, VOCs during construction. For projects/facilities with interior occupied spaces, document material choices specified to reduce VOCs. E. Incorporate designs or systems that remove existing air pollutant sources or capture and sequester air pollutants to achieve a net positive impact.	CR 2.1 CR 2.1 Avoid Unsuitable Development C. Incorporate designs that reduce impacts to the project systems, or incorporate designs that mitigate site hazards.	CR 2.6 CR 2.6 Improve Infrastructure Integration A. Incorporate project designs that integrate or coordinate project systems to achieve efficiencies, redundancies, or system diversity. B. Incorporate project designs and systems that reduce the risk of system or cascading failures. C. Incorporate project designs and systems that improve efficiency, redundancy, or system diversity. D. Incorporate project designs and systems that integrate infrastructure networks to achieve efficiency, redundancy, or system diversity. E. Incorporate project designs or systems for monitoring or data gathering to improve performance during operations.
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DESIGN DEVELOPMENT / CONSTRUCTION DOCUMENTS – MID-PHASE CONSIDERATIONS

QA 1.4 QA 1.4 Minimize Noise & Vibration B. Incorporate design considerations to mitigate negative operational noise impacts. C. Document that noise generated as a result of the project will not exceed the target noise levels for impacted communities. D. Continue engagement related to noise impacts and mitigation strategies. E. Incorporate design considerations to address noise mitigation.	QA 1.5 QA 1.5 Minimize Light Pollution B. Indicate location and type of each lighting strategy deployed. C. Refine lighting plan, as needed. D. Incorporate lighting fixtures that restrict lighting to below 90 degrees into design. E. Incorporate lighting fixtures that meet BUG requirements. F. Incorporate design considerations to address lighting removal or retrofit.	QA 2.1 QA 2.1 Improve Community Mobility & Access B. Continue engaging with the community and key stakeholders regarding mobility and access issues. C. Incorporate design considerations that increase capacity, reduce congestion, reduce vehicle distance traveled, or improve quality guidelines, as appropriate. D. Incorporate design considerations that improve mobility and access. E. Incorporate design considerations that improve long-term mobility and access. F. Incorporate design considerations that could provide new or improved connections between communities to increase overall mobility.	QA 2.2 QA 2.2 Improve Access & Wayfinding A. Incorporate design considerations that provide effective access for emergency personnel. B. Incorporate design considerations that use clear signage and wayfinding to integrate the project with its surroundings. C. Incorporate design considerations that include universal design principles for areas open to the public. D. Incorporate design considerations that improve broader community or neighborhood safety.	QA 3.4 QA 3.4 Enhance Views & Local Character B. Incorporate project designs that preserve natural landscape features and enhance views and local character, while balancing the need for safety and protection. D. Specify construction requirements for a construction management plan that identifies important natural or man-made features deemed important to views or local character and how they will be protected during construction. F. Incorporate project designs that restore previously lost or degraded views and elements of local character, or enhance the community by creating new features of local character.	QA 3.5 QA 3.5 Enhance Public Space & Amenities A. Incorporate project designs or configurations that mitigate impacts to public space and amenities. C. Collect feedback from stakeholder engagement demonstrating community satisfaction how the project addresses impacts to public space/amenities including, when applicable, the design and acceptance of construction impacts to public space/amenities, specifically access, during construction. If relevant, obtain written approval from officials regarding project plans related to public space/amenities. D. Integrate project designs to enhance, create, or restore public space and/or amenities.
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RA 1.3 RA 1.3 Reduce Operational Waste A. Develop or integrate an operational waste management plan. B. Quantify waste reduction measures and calculate the estimated percentage of materials that will be diverted to recycling or reuse during project operations. Incorporate design considerations that will reduce waste generation or increase waste diversion.	RA 3.1 RA 3.1 Preserve Water Resources B. Incorporate designs that reduce water use and wastewater generation. Confirm water use and wastewater generation estimates. C. Incorporate designs that reduce negative impacts of water use and/or watershed-scale issues. D. Confirm calculations evaluating the impact of project operational water use. E. Confirm how the project contributes to a watershed level or regional plan. F. Incorporate design features that have a net positive impact to the watershed in terms of water quantity and availability or water quality.	RA 3.2 RA 3.2 Reduce Operational Energy Consumption A. Incorporate design and/or systems that can reduce operational energy consumption. Confirm/update estimate of annual energy consumption of the project during operations. B. Calculate the project's baseline energy consumption over the life of the project. Document the percentage reduction over the baseline.
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NW 3.5 NW 3.5 Protect Soil Health A. Integrate project designs that limit soil disturbance. Specify contractor requirements that limit soil disturbance. B. Incorporate designs and practices that conserve and reveal natural soils in vegetated areas onsite. Integrate designs that restore vegetated areas to support healthy plant and tree growth, reusing soils for functions comparable to their original function. C. Incorporate project designs that restore structures from the floodplain or return previously developed areas to a vegetated state. Develop site maps showing structures or impervious/vegetated zones within the floodplain after the project development. D. Incorporate project designs that restore previously disturbed areas to conditions that support healthy plant and tree growth, supporting the soil restoration plan.
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CR 2.5 CR 2.5 Maximize Resilience B. Integrate risk management strategies into the project design to reduce risk and increase resilience. C. Monitor implementation of resilience strategies through design and review key performance indicators. Revise resilience strategies to ensure their continued effectiveness in the face of potential changes in project design or parameters. D. Add resilience goals and strategies to O&M plans, or coordinate efforts with organizations responsible for project operations to establish plan-do-check-act systems that learn and continually improve resilience capabilities. Outline the types of O&M guidance and/or training needed to ensure effectiveness during operations. E. Review methods for measuring or quantifying resilience performance targets. Update calculations, as needed.
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DESIGN DEVELOPMENT / CONSTRUCTION DOCS – LATER-PHASE CONSIDERATIONS

QA 1.3 QA 1.3 Enhance Construction Safety A. Specify contractor requirements related to safety commitments, safety rewards program, subcontractor safety requirements, and engagement of senior managers in safety program. B. Specify contractor requirements related to safety investigation process, injury management system, incident review process, and "lessons learned" reports. C. Specify contractor requirements related to safety and/or security competency training programs, and minimum training requirements for health and safety programs. D. Specify contractor requirements related to specific site and project security plan. E. Specify contractor requirements related to health and/or well-being programs beyond the specific activities associated with project delivery.	QA 3.3 QA 3.3 Enhance Construction Impacts A. Specify contractor requirements related to developing a construction management plan (CMP) and stakeholder engagement during construction. B. Specify contractor requirements related to mitigating construction noise and/or vibrations impacts to meet or exceed accepted local practices, and stakeholder engagement and mechanisms for communities to report complaints. C. Specify contractor requirements related to safety and wayfinding for pedestrians and vehicles during construction. D. Specify contractor requirements related to maintaining access to public space and amenities during construction. E. Specify contractor requirements related to addressing distracting or intrusive lighting during construction. F. Specify contractor requirements related to feedback mechanisms or receiving and responding to public and stakeholder concerns during construction, and programs to monitor and perform impacted stakeholders on project performance in addressing construction impacts.
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LD 2.3 LD 2.3 Plan for Long-Term Monitoring & Maintenance A. Consider project designs that could support long-term operations and maintenance.	LD 2.4 LD 2.4 Plan for End-of-Life A. Incorporate end-of-life plan for improving operations and maintenance planning. B. Update future demands, loads, and other requirements on the infrastructure system. Consider how project designs allow for expansion, reconfiguration, and/or multiple uses. C. Assess the potential social, environmental, and economic end-of-life impacts associated with the project. D. Assess the projects end-of-life costs and salvage value. E. Integrate end-of-life costs and impacts into the stakeholder engagement process (see also LD 3.3).
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RA 1.1 RA 1.1 Support Sustainable Procurement Practices A. Incorporate requirements related to sustainable procurement, policy/sustainable practices for manufacturers and/or suppliers. B. Develop tracking and reporting mechanisms related to sustainable procurement.	RA 1.2 RA 1.2 Use Recycled Materials B. Incorporate design considerations that use materials with recycled content and/or reuse existing structures or materials. Develop an inventory for materials containing recycled content, and existing materials or structures that have been reused. Document the percentage of reused or recycled materials.	RA 1.4 RA 1.4 Reduce Construction Waste A. Specify contractor requirements related to developing a construction waste management plan (CWMP). B. Develop an inventory of likely construction waste and demolition materials that will be generated during construction. Estimate the percentage of reused or recycled materials. Specify contractor requirements related to documenting and calculating waste reduction measures and percentage of materials diverted to recycling or reuse.	RA 2.2 RA 2.2 Reduce Construction Energy Consumption A. Specify contractor requirements related to implementing energy conservation strategies during construction.	RA 2.4 RA 2.4 Commission & Monitor Energy Systems A. Incorporate designs for equipment and/or software to monitor operational energy performance. Document that the equipment will monitor all primary project functions for the required percentage of energy consumption. B. Specify contractor requirements related to energy system commissioning, including covered systems and type of commissioning agent. C. Consider documenting the plan for ongoing recommissioning/review of systems throughout the expected life of the project.	RA 3.3 RA 3.3 Reduce Construction Water Consumption A. Specify contractor requirements related to implementing water conservation strategies during construction.	RA 3.4 RA 3.4 Monitor Water Systems A. Incorporate designs for equipment and/or software to monitor operational water performance. Document that the equipment will monitor all primary project functions for the required percentage of water consumption or efficient. Specify the location, purpose, and type of monitoring equipment to be installed. B. Incorporate designs and specifications for water monitoring equipment that delivers real-time data on water use. Develop plan for using water monitoring data to improve water efficiency, reduce leakage, and conserve water overall.
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NW 1.2 NW 1.2 Provide Wetland & Surface Water Buffers B. Incorporate project designs that provide the appropriate buffer type and size needed to protect wetlands and surface waters. C. Develop a site plan that shows the final site design with buffer zone boundaries and the minimal buffer zone width calculated as the shortest point between the buffer zone boundary and the identified wetland, water body, or shoreline. E. Incorporate project designs that return developed areas to a natural state within the protective buffer zones.	NW 1.3 NW 1.3 Preserve Prime Farmland B. Specify that during construction no soils will be stripped from areas to be preserved as farmland. Calculate the percentage of the project site that includes development on farmland. Include site plan showing areas of farmland. C. Develop specification for construction management plan that outlines provisions for protecting farmland during construction, including restoration of soils disturbed as a result of temporary works.	NW 2.2 NW 2.2 Manage Stormwater A. Incorporate design of stormwater management strategies to meet requirements for storm events as listed in the level of achievement table. Include site plan showing locations of stormwater management strategies and locations of VOCs. B. Update calculations for stormwater runoff patterns of the materials and equipment used on site to show that the project will not exceed rate or quantity of runoff for the relevant 2-, 5-, 10-, 25-, 50-, and/or 100-year 24-hour rainfall event. C. Incorporate project specifications that require an erosion, sedimentation, and pollutant control plan for all construction activities associated with the project. D. Incorporate design of stormwater management strategies to infiltrate, evapotranspire, reuse, or treat water from other sites. OR site design that returns site hydrology to a predevelopment state.	NW 2.3 NW 2.3 Reduce Pesticide & Fertilizer Impacts B. Incorporate design of runoff controls. Consider management plans that specify a mix of noninvasive plant species, detailing requirements related to fertilizer and pesticide use during construction.	NW 3.4 NW 3.4 Control Invasive Species A. Incorporate landscape designs that include only noninvasive species. Specify the type and quantity of all noninvasive species that will be used on the site. Specify requirements for construction management plan to include practices to prevent the introduction of invasive species, including that construction materials and equipment used on site are free of invasive species and seeds. C. Specify contractor requirements for the removal of minor infestations of invasive species before and throughout construction, as well as control, containment or suppression activities during construction for any major infestations of invasive species found on site. Plan for post-construction followup to remove any invasive species that re-emerge after initial control. D. Incorporate landscape designs and specifications that include native plant species.
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CR 1.2 CR 1.2 Reduce Greenhouse Gas Emissions A. Incorporate project design and systems to reduce greenhouse gas emissions for the operating project. Update calculations of percentage reduction compared to the established baseline. B. Estimate calculations of annual greenhouse gas emissions over the life of the project.

Construction

Five credits focus on construction activities, while numerous other credits could have a construction component depending on the pursued level of achievement.

CONSTRUCTION – OWNER ACTIVITIES DURING CONSTRUCTION

 Credit has a *stakeholder engagement* component.
  Information related to the content of the credit may be included in an *environmental assessment* or similar document.
  Credit has a *construction-related* component.

Information related to the content of Envision credits my be included in an environmental assessment or similar document.

Environmental

QL1.1 Improve Community Quality of Life A. Locate and review recent community planning information and assess relevant community needs, goals, and/or issues. B. Compare project vision and goals to the needs, goals, and/or issues of the community. C. Assess, identify, and evaluate positive and negative social impacts project will have on affected communities' quality of life. D. Document process for collecting, evaluating, and incorporating community input into planning and design. E. Document the extent to which options for mitigating negative impacts were identified and prioritized, and reasonable changes to the project made. F. Document input and agreement from key stakeholders, community leaders, and/or decision makers regarding impact assessment and planned action. Document and community satisfaction and endorsement of plans includes. G. Document long-term social, economic, or environmental changes/trends that may impact community goals and needs over time.	QL1.2 Enhance Public Health & Safety B. Consider project siting to avoid or minimize risks to health or safety. Document decision making focused on critical health and safety risks that represent the largest or most likely potential impacts for the project. C. Develop an index of health and safety risks that represent the project's immediate surroundings. D. Develop an index of health and safety improvements to the broader host or affected communities. E. Document that health and safety risks and impacts are not disproportionately borne by a community. Document that mitigation measures will be proportionately distributed to communities most impacted by the project. F. Document how the community is currently experiencing or is at risk of experiencing health and/or safety impacts. Document how the project will provide the critical infrastructure services necessary to resolve, or significantly reduce, the impacts.	QL1.4 Minimize Noise & Vibration A. Index potential noise generation sources related to the project, including the potential for noise-generating vibrations. Assess impacts from project noise and vibrations. B. Document noise mitigation measures used throughout the project. Explain how mitigation measures follow a hierarchy that prioritizes avoidance, minimization, source abatement, receptor abatement, and compensation/offsetting. C. Document that project has adopted or set target noise levels for communities potentially affected by project noise. Document that noise generated by project will not exceed the target noise levels for impacted communities. D. Engage community to understand noise impacts, and the develop operational noise targets and mitigation strategies. E. Analyze and document baseline and anticipated operational noise and vibration levels. Document that mitigation measures are sufficient to have no noticeable noise increase.	QL1.5 Minimize Light Pollution A. Assess how project lighting may impact people, flora, and/or fauna in the area. B. Document that light pollution reduction strategies were assessed and considered.	QL1.6 Minimize Construction Impacts A. Document a construction management plan or policies to address stakeholders concerns. B./C./D./E. Document potential for construction impacts related to: noise and/or vibrations, safety and wayfinding for pedestrians and vehicles, access to public space and amenities, distracting or intrusive lighting.	QL2.1 Improve Community Mobility & Access A. Document project consistency with local and regional transportation plans. B. Document meetings with the community and key stakeholders regarding issues of mobility and access. C. Document access and mobility principles, concepts, requirements, and expected outcomes of the project. Document how the project increases transportation capacity, efficiency, or quality. D. Assess the availability, feasibility, and use of transportation options. Document how the project expands mobility and access options. Document community use of complete streets policies and guidelines.	QL2.2 Encourage Sustainable Transportation A. Develop a map showing pedestrian proximity and accessibility to active, shared, or mass transportation. B./C. Describe how the project encourages and facilitates active, shared, and/or mass transportation options, and is designed to minimize impacts. D. Document how the project integrates transportation improvements with existing transportation infrastructure and/or a larger transportation infrastructure. Document how the project creates new connections or rehabilitates/repurposes unused, underused, or previously disconnected pathways and/or other modes to enhance the efficiency, quality, or level of service of the overall network.	QL2.3 Improve Access & Wayfinding B. Document how the project protects nearby sensitive sites (wetland, cultural sites, etc.) or, in populated/developed areas, separates pedestrian and non-pedestrian zones enhancing safety and security. C. Document areas of the project site that are accessible to the public, including restrictions. D. Document how the project will improve broader community or neighborhood safety.	QL3.1 Advance Equity & Social Justice A. Document the historic context of equity and social justice within the affected communities. Document how the equity and social justice context informed the stakeholder engagement process. In cases where the project impacts sovereign peoples, especially Indigenous peoples, document how the process specifically addressed and prioritized engagement of these stakeholders and how attention was given to developing a relationship of respect and mutual understanding that supported the autonomy, authority, and rights of these communities. B. Document both positive and negative social impacts that specifically include equity and social justice - may be part of a larger environmental and social risk and impact assessment.	QL3.2 Preserve Historic & Cultural Resources A. Document meetings with the community and required regulatory agencies to identify historic and cultural resources. Index historic and/or cultural resources that may be impacted. B. Consider how to mitigate impacts or avoid historic or cultural impacts. Create a mitigation hierarchy. C. Document historic/cultural resources beyond registries of historic sites. Document the level of effort to identify important community cultural resources even if none were found. D. Document that the stakeholder engagement process included identification and discussion of historic/cultural resources. E. Document how efforts were sufficient to avoid all historic/ cultural resources or fully preserve/protect their character-defining features. F. Document efforts to enhance or restore existing historic and cultural resources. Document collaboration with historic or cultural preservationists.	QL3.3 Enhance Views & Local Character A. Identify important elements of site character including landforms or levels, views, natural landscape features, materials, planting, style/ detailing, scale, and landscape/ townscape pattern. Review policies and regulations regarding public views and design guidelines relevant to the project. B. Consider strategies for preservation of natural landscape features. C. Document that the project's aesthetic quality in its context was an important consideration. E. Document that the stakeholder engagement process specifically addressed issues of views and local character.	QL3.4 Enhance Public Space & Amenities A. Assess the project's impacts on existing public space and/or amenities. Consider mitigation strategies. Document that the project will not result in a net loss of public space and amenities in quantity or quality. B. Document that public space and amenities were specifically included in the stakeholder engagement process. C. Document stakeholder understanding and acceptance of construction impacts to public space/amenities, specifically access, during construction. D. For new or enhanced public space/amenities, document how it is a significant asset to the local community.
LD 1.1 Provide Effective Leadership & Commitment A. Document commitments to address social, environmental, and economic aspects of the project.	LD1.2 Foster Collaboration & Teamwork D. Document that construction, operations and/or maintenance representatives have participated in the integrated design process.	LD1.3 Provide for Stakeholder Involvement A. Identify a comprehensive list of potential stakeholders, with stakeholder classification (primary or secondary) and a statement or rationale for selection. Document how stakeholders were identified and prioritized in a fair and equitable fashion. B. Document stakeholder engagement, including processes and outreach. C. Document stakeholder feedback. D. Document stakeholder support for the engagement process.	LD2.2 Plan for Sustainable Communities A. Document that sustainability indicators or outcomes were factors in considering project alternatives during project selection/ identification in the earliest phases of project planning. B. Document that alternative analyses included sustainability performance assessments, as well as the sustainability performance of a no-build option to determine whether new infrastructure construction was necessary.	LD2.4 Plan for End-of-Life A. Provide a Base case for project useful life (in years). B. Document how the project could feasibly and beneficially be repurposed at the end of its useful life/decommissioning plan.	LD3.1 Stimulate Economic Prosperity & Development A. Estimate the number and type of new jobs created during the design, construction, and operation of the project that benefit the local economy, and the impact of the jobs on the local economy relative to the project size. B. Document how the project expands or increases the quality of or operating capacity for business, industry, or the public, including documents from community leaders or decision makers that confirm the project benefits to business, industry, or the public. C. Document how the project provides additional access, increases the number of choices, and/or increases the quality of infrastructure services. Analyze how additional access, choices, or quality of services will provide benefits to the local economy.	LD3.2 Develop Local Skills & Capabilities C. Document commitments or programs by the project owner or operator to deliver training, education, or skill development programs after construction is completed. D. Document how economically depressed, underemployed, or disadvantaged communities were determined relative to the local/ regional economic conditions.	LD3.3 Conduct a Life-Cycle Economic Evaluation A. Document a life-cycle cost analysis, including assumptions, data sources, and methodology. B. Document the planned use of the financial analysis and how it impacted the decision-making process or alternative selected. D. Document a cost benefit analysis, including assumptions, data sources, and methodology.				
RA2.1 Reduce Operational Energy Consumption A. Estimate annual energy consumption of the project during operations. B. Calculate the baseline energy consumption.	RA2.3 Use Renewable Energy A. Document the anticipated annual output of all renewable sources, direct renewable electricity purchases, or exports to the grid, and the resulting overall percentage of renewable energy to total energy consumption.	RA2.4 Commission & Monitor Energy Systems A. Document any equipment and/ or software to allow detailed monitoring of energy performance.	RA3.1 Preserve Water Resources A. Assess and demonstrate understanding of the project's watershed context. Document the location, type, quantity, rate of recharge, and quality of water resources in the watershed. Identify source and impacts of water used and the destination and impacts of wastewater. B. Calculate the estimated water usage and wastewater generation over the life of the project.	RA3.2 Reduce Operational Water Consumption A. Identify potable water reduction strategies for the operating project. B. Calculate an industry baseline for potable water use to be used as a baseline. Estimate annual potable water consumption over the life of the project. C. Calculate an industry baseline for overall water use to be used as a baseline. Estimate annual total water consumption over the life of the project.	RA3.3 Preserve Water Resources D. Provide calculations demonstrating the project's water usage will have no impact on the quantity and availability of fresh surface water and groundwater supplies. Document that the project does not compromise water quality in the watershed. E. Document that the project is part of, or contributes to, a larger watershed level or regional plan intended to improve the watershed.	RA3.4 Commission & Monitor Energy Systems F. Document that the project has a net-positive impact to the watershed in terms of water quantity and availability or water quality. Examples of watershed improvements may include improved water quality, better hydrologic connectivity, or water storage and availability.					
NW1.1 Preserve Sites of High Ecological Value A. Identify areas of high ecological value on site. Index areas of high ecological value on or near site. B. Develop a mitigation plan appropriate to meet mitigation goals. Provide a site plan showing temporary works and their proximity to sites of ecological value. Document that capacity of ecological sites will not be diminished as a result of construction activities. C. Document that no existing areas of high ecological value will be developed as a result of project. D. Provide site map illustrating a protective zone for areas of high ecological value. E. Document extent to which areas of high ecological value were intentionally avoided. Document how owner and project team made meaningful efforts to avoid disturbing areas of high ecological value during site selection process. F. Document how areas of high ecological value were increased or restored. Include site map outlining locations and technical summary describing methods and materials of restoration. Documentation must be signed by a qualified natural resource professional.	NW1.2 Provide Wetland & Surface Water Buffers A. Map wetlands and surface waters in and around the site. B. Calculate proposed buffer type and minimum width. Document how the project team has considered site conditions, including soil type, slope, land use, and vegetation mix in determining the appropriate buffer width and type. Document that the proposed buffer width and type are sufficient to address: pesticide retention; bank stabilization; sediment control; nutrient retention; litter and debris; water temperature; terrestrial wildlife; and aquatic wildlife. Documentation that the project team has considered the cumulative impacts of acidification and/or eutrophication of the water bodies in the project design. D. Document that the project team intentionally avoided siting the project on or within the minimum buffer widths of wetlands and surface waters. E. Provide maps of developed areas of the project site that will be returned to a natural state within the protective buffer zones.	NW1.3 Preserve Prime Farmland A. Document government studies and/or soil surveys designating areas of prime farmland, unique farmland, or farmland of special importance. B. Provide calculations showing the percentage of the project site that includes development on farmland. C. Document how the disturbed farmland will be mitigated on site per local jurisdiction standards. For areas permanently disturbed by the constructed project, document offsetting measures. D. Document that the project team intentionally avoided siting the project on prime farmland.	NW1.4 Preserve Undeveloped Land A. Document the percentage of the site area that can be classified as a greyfield. B. Document that previously developed areas will be returned to a natural state.	NW2.1 Reclaim Brownfields A. Document that the site is closed or an already remediated site according to federal or state/ provincial programs. B. Document that the site is already designated as an active (non-remediated) brownfield according to federal or state/ provincial programs. C. Document that a mitigation and remediation plan is planned for the site.	NW2.2 Manage Stormwater A. Document stormwater management strategies and their function in infiltrating, evapotranspiring, reusing, or treating water from the site. B. Provide site plan, documentation, and calculations of the existing site and stormwater runoff patterns. D. Document stormwater strategies that infiltrate, evapotranspire, reuse, or treat water from other sites.	NW2.3 Reduce Pesticide & Fertilizer Impacts A. Document operational policies and programs for applying fertilizers and pesticides. B. Document how runoff controls will be designed, installed, and maintained.	NW2.4 Protect Surface & Groundwater Quality A. Perform or research existing hydrologic and/or hydrogeologic delineation studies, taking into consideration the complexity of the aquifers. Explain potential impacts to surface water and/or groundwater quality, their risk, and consequences, including water temperature. C. Document decisions intended to reduce the risk of surface water and/or groundwater quality degradation. For projects situated in areas where groundwater is used as a source of drinking water, document wellhead and groundwater recharge area protection plans and other requirements including protection areas. D. Document surface water and/or groundwater quality monitoring programs or contaminant source monitoring. F. Document a water quality baseline prior to the project's development. Document that the project improves overall water quality on site, or in the watershed, compared to the pre-existing baseline.	NW3.1 Enhance Functional Habitats A. Document areas of important habitat on site and in the surrounding region, identifying potential and/or likely movement corridors between habitat areas, and potential existing barriers to these corridors on site. Assessment must be prepared by a trained, certified or licensed habitat professional. Document collaboration with local and state/ provincial agencies. B. Identify new impacts or barriers that will result from development and the specific actions that will be taken to minimize or to mitigate them. Document mitigation measures to maintain net habitat quality, quantity, and connectivity to provide a means for animals to access pre-development habitat after development is complete. Acceptable mitigation must be on site, on a contiguous adjacent parcel, or within the affected landscape.	NW3.2 Enhance Wetland & Surface Water Functions A. Identify all potential impacts to wetland and surface water functions, including hydrologic connection, water quality, aquatic habitat, and sediment transport. B. Document strategies to minimize disturbance to wetland and surface water functions: hydrologic connection, water quality, aquatic habitat, and sediment transport. Document mitigation measures to compensate for unavoidable losses in wetland and surface water functions. C. Document how the project will protect or restore hydrologic connection. D. Document the current source of the waterway's normal flow, the water quality of its source water, and how the water quality will be protected or restored.	NW3.3 Maintain Floodplain Functions A. Document the location of the project relative to the 100-year or design floodplain (whichever is more stringent). Projects are encouraged to use existing information. Document whether climate change predictions may significantly impact the floodplain map and potential impacts to the project. B. Provide maps indicating the area of natural/vegetated zones within the floodplain before the project development. C. Document that the project preserves floodplain conveyance and floodplain storage. E. Provide maps indicating the location of structures or impervious/vegetated zones within the floodplain before the project development.	NW3.4 Control Invasive Species A. Document the type and quantity of species introduced to the site. Document that species used on the site are noninvasive. B. Map invasive species populations found on the site. Document collaboration with state or local agencies OR the qualifications of the biologist, ecologist, or environmental professional who conducted the site assessment.
CR1.1 Reduce Net Embodied Carbon C. Document that the project has set targets for reducing net embodied carbon. Document strategies/plans to reduce net embodied carbon.	CR1.3 Reduce Air Pollutant Emissions A. Document local, regional, or national standards and regulations relevant to project, and that project has met or will meet all relevant standards and regulations. B. Estimate total annual air pollutant emissions over project life. Document strategies deployed to reduce air pollutant emissions. C. Document project systems for monitoring air pollutants directly emitted during operations. Document processes, procedures, or systems designed to identify and address changes in emissions in order to maintain performance.	CR2.1 Avoid Unsuitable Development A. Identify site hazards. Document vulnerability of the project and project alternatives to siting hazards. Document that the project team considered the potential for the project to exacerbate potential siting hazards. B. Document that project and siting alternatives were considered in order to minimize exposure to siting hazards as much as practicable.	CR2.2 Assess Climate Change Vulnerability A. Document that the project team conducted a climate threat analysis or that an existing climate change study was available for the community. Document that the climate threat analysis expands beyond direct impacts to the project and includes threats to the connected infrastructure system or related infrastructure network.	CR2.3 Evaluate Risk & Resilience C. Document that the project team identified threats/hazards or that existing threat/hazard studies were available and are sufficient and comprehensive for the project.							

Stakeholder Engagement



CR2.4 Establish Resilience Goals and Strategies

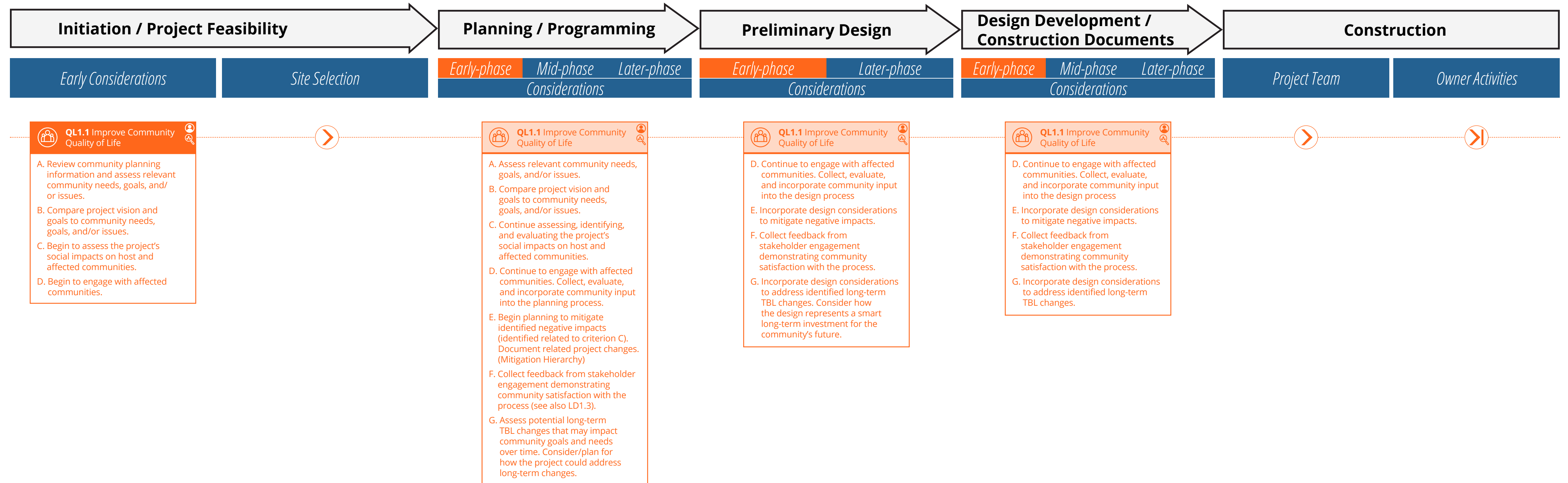



C. The project team engages the owner and key stakeholders in developing or reviewing resilience goals and strategies.

Individuals or groups indirectly affected by the project, such as: national and local government, public utilities, licensing and inspecting organizations that are not directly involved in the project.

ENVISION CREDIT NAVIGATOR - CREDIT PROGRESSION

QUALITY OF LIFE



 Credit has a *stakeholder engagement* component.

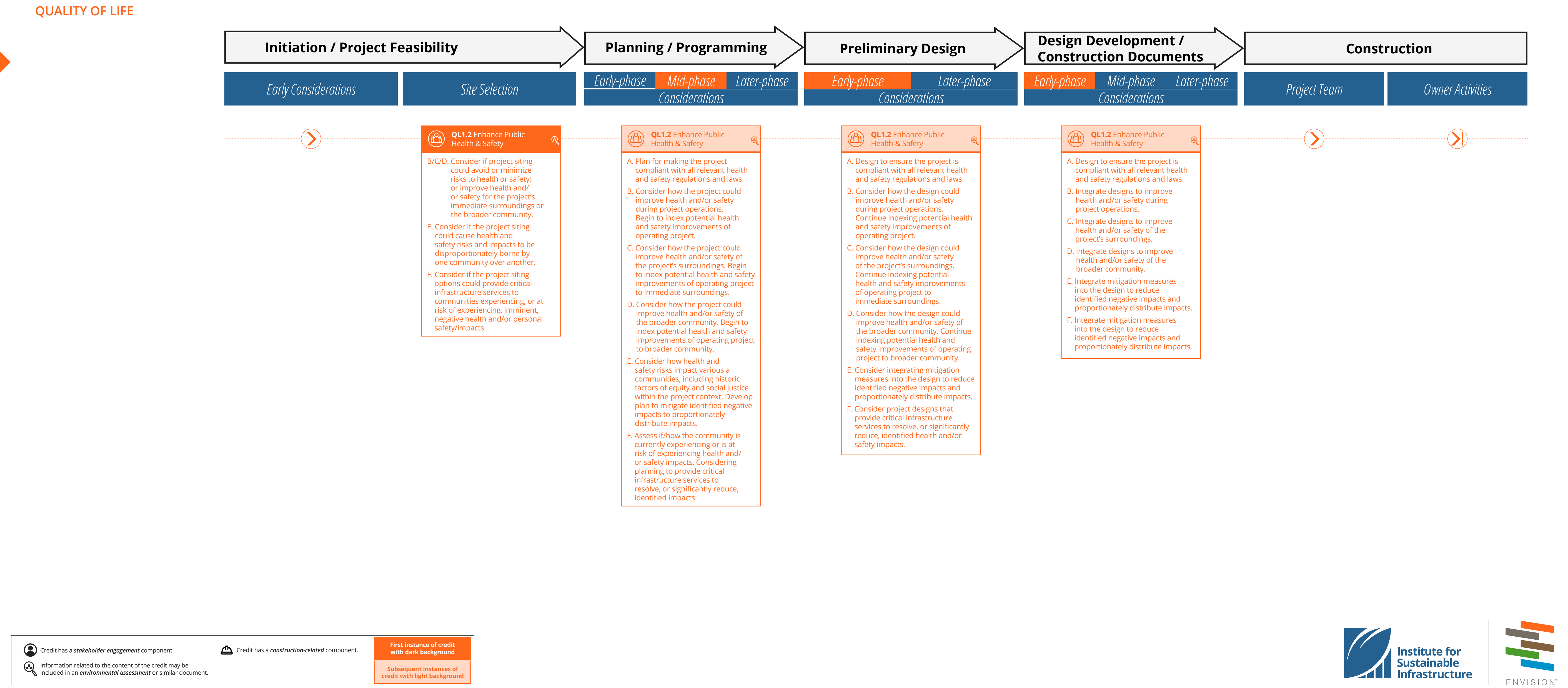
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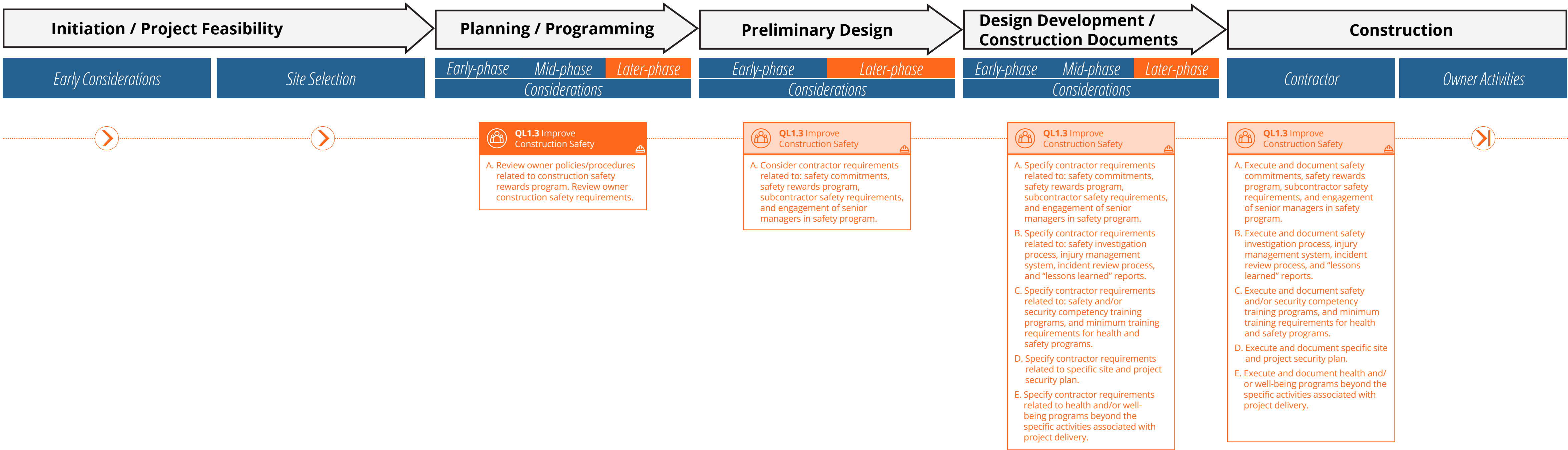
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ENVISION CREDIT NAVIGATOR - CREDIT PROGRESSION



ENVISION CREDIT NAVIGATOR - CREDIT PROGRESSION

QUALITY OF LIFE



ENVISION CREDIT NAVIGATOR - CREDIT PROGRESSION

Full Roadmap

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Planning / Programming

Preliminary Design

Design Development / Construction Documents

Construction

Environmental

Stakeholder Engagement

Quality of Life

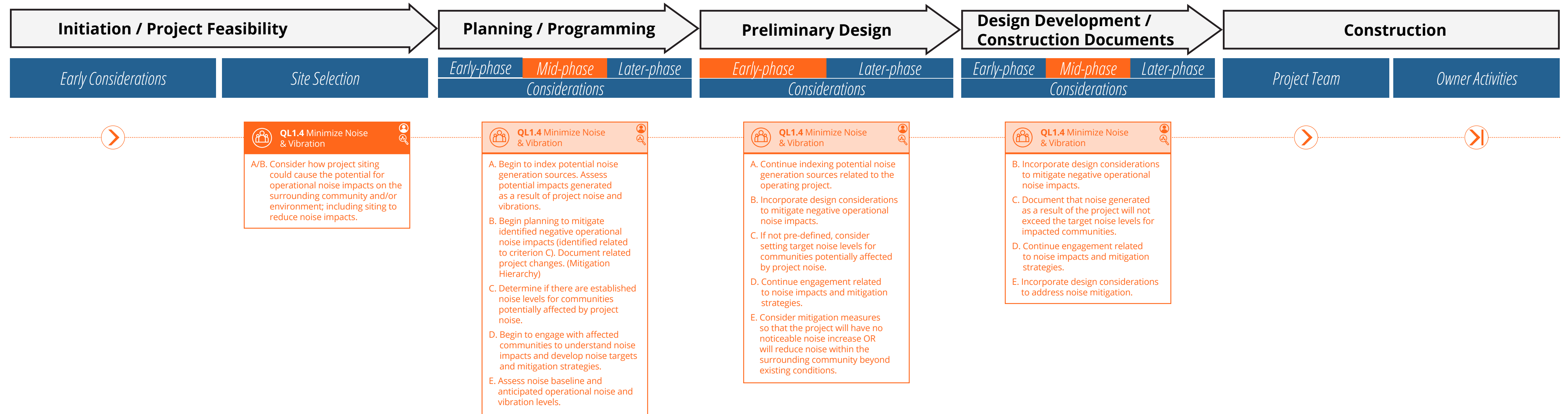
Leadership

Resource Allocation

Natural World

Climate & Resilience

QUALITY OF LIFE



Credit has a *stakeholder engagement* component.



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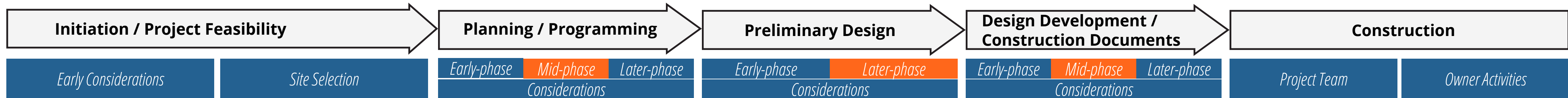
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ENVISION CREDIT NAVIGATOR - CREDIT PROGRESSION

QUALITY OF LIFE





QL1.5 Minimize Light Pollution



A. Consider project lighting needs and potential impacts on the site and surrounding areas. Assess how lighting may impact people, flora, and/or fauna.

B. Assess light pollution reduction strategies. (Mitigation Hierarchy)



QL1.5 Minimize Light Pollution



B. Design light pollution reduction strategies to reduce negative impacts.

C. Develop lighting plan with lighting zones to address: lighting goals; safety and security needs; environmental conservation; energy efficiency; and reducing lighting when no longer needed.

D. Consider lighting locations and types that restrict light to below 90 degrees.

E. Consider specifying light figures that meet BUG requirements for respective lighting zones.

F. Consider how lighting removal or retrofit can be accommodated in design.



QL1.5 Minimize Light Pollution



B. Indicate location and type of each lighting strategy deployed.

C. Refine lighting plan, as needed.

D. Incorporate lighting fixtures that restrict lighting to below 90 degrees into design.

E. Incorporate lighting fixtures that meet BUG requirements into design.

F. Incorporate design considerations to address lighting removal or retrofit.

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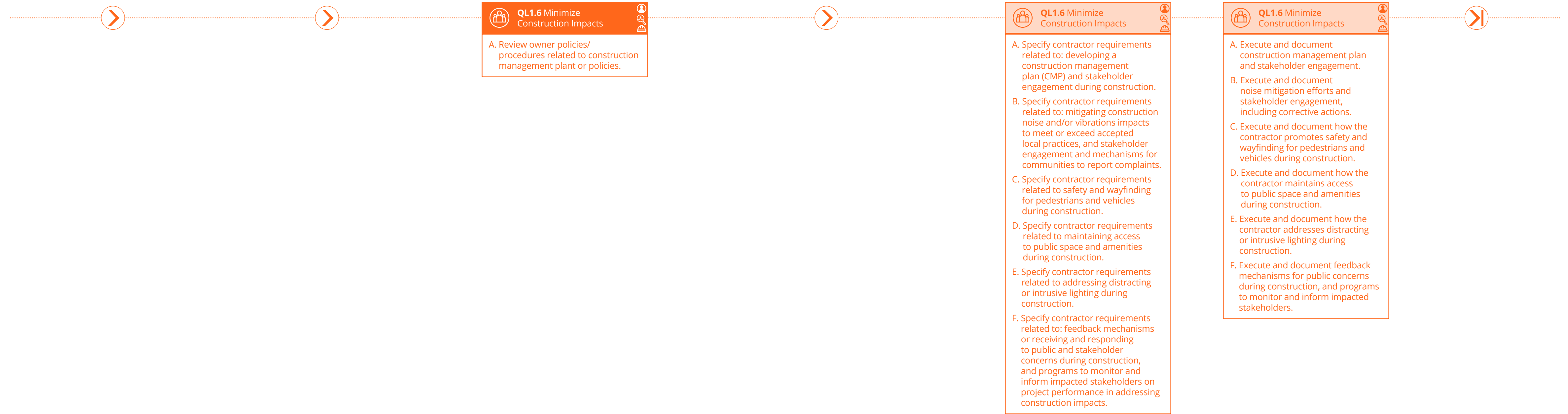
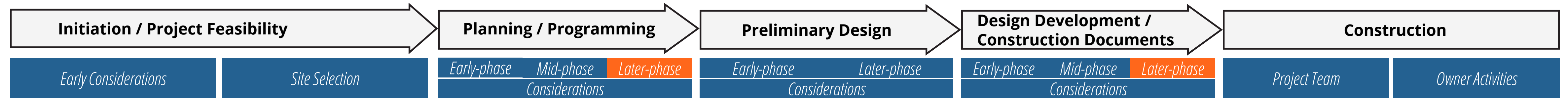
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Resource Allocation

Natural World

Climate & Resilience

QUALITY OF LIFE



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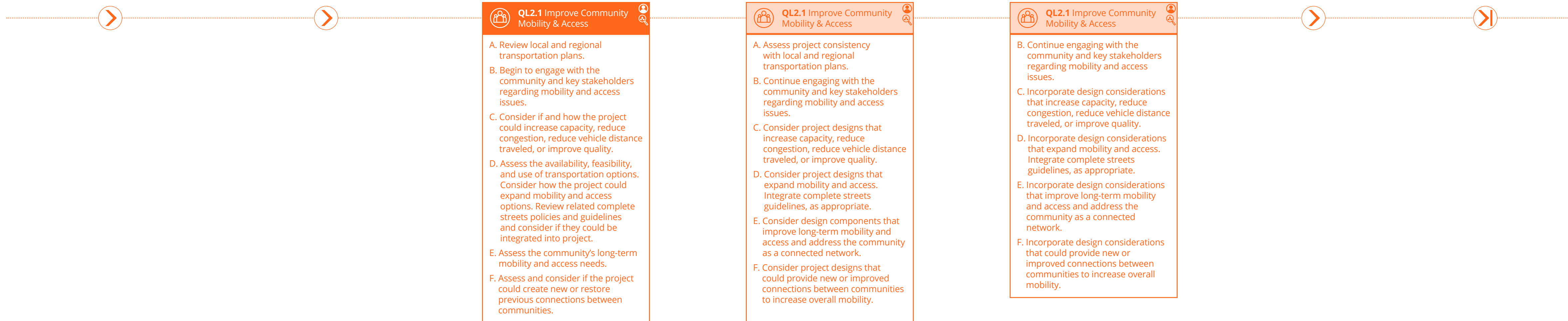
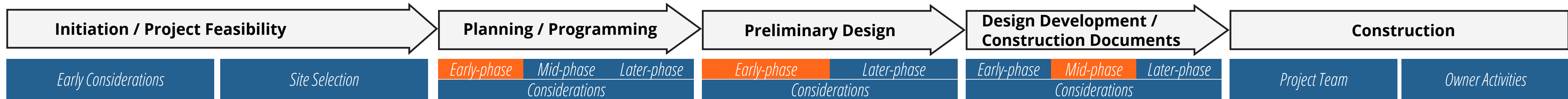
Credit has a *construction-related* component.

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ENVISION CREDIT NAVIGATOR - CREDIT PROGRESSION

QUALITY OF LIFE



ENVISION CREDIT NAVIGATOR - CREDIT PROGRESSION

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Stakeholder Engagement

Quality of Life

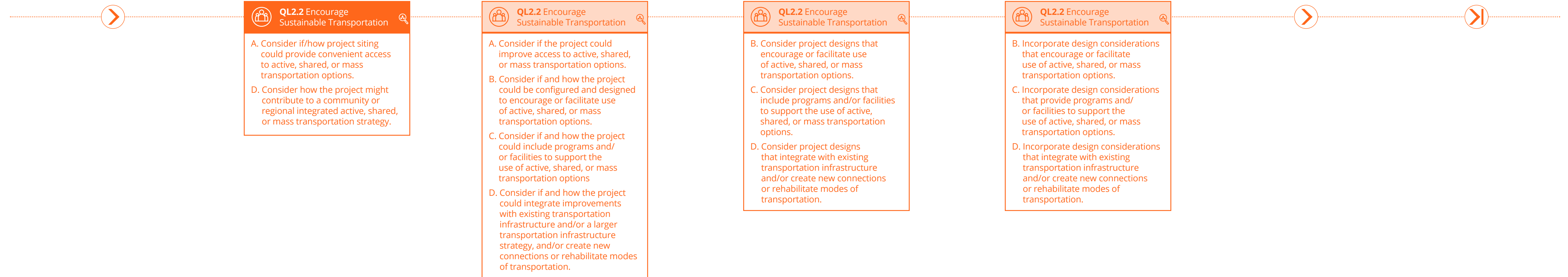
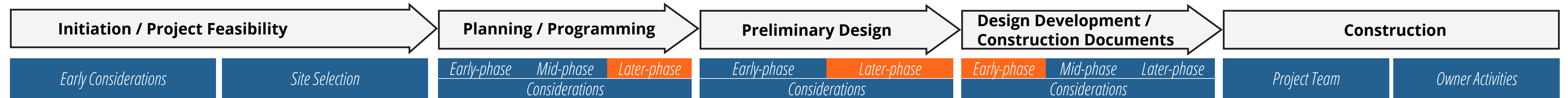
Leadership

Resource Allocation

Natural World

Climate & Resilience

QUALITY OF LIFE



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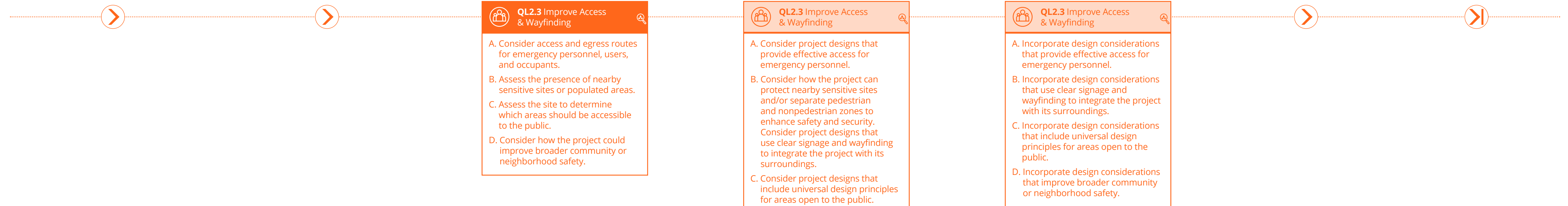
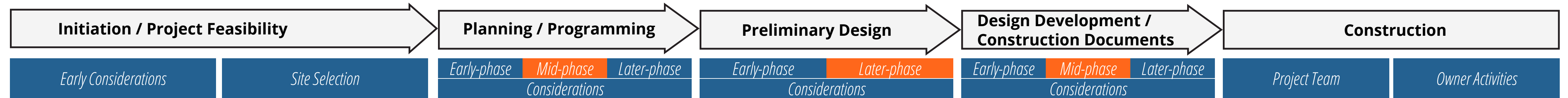
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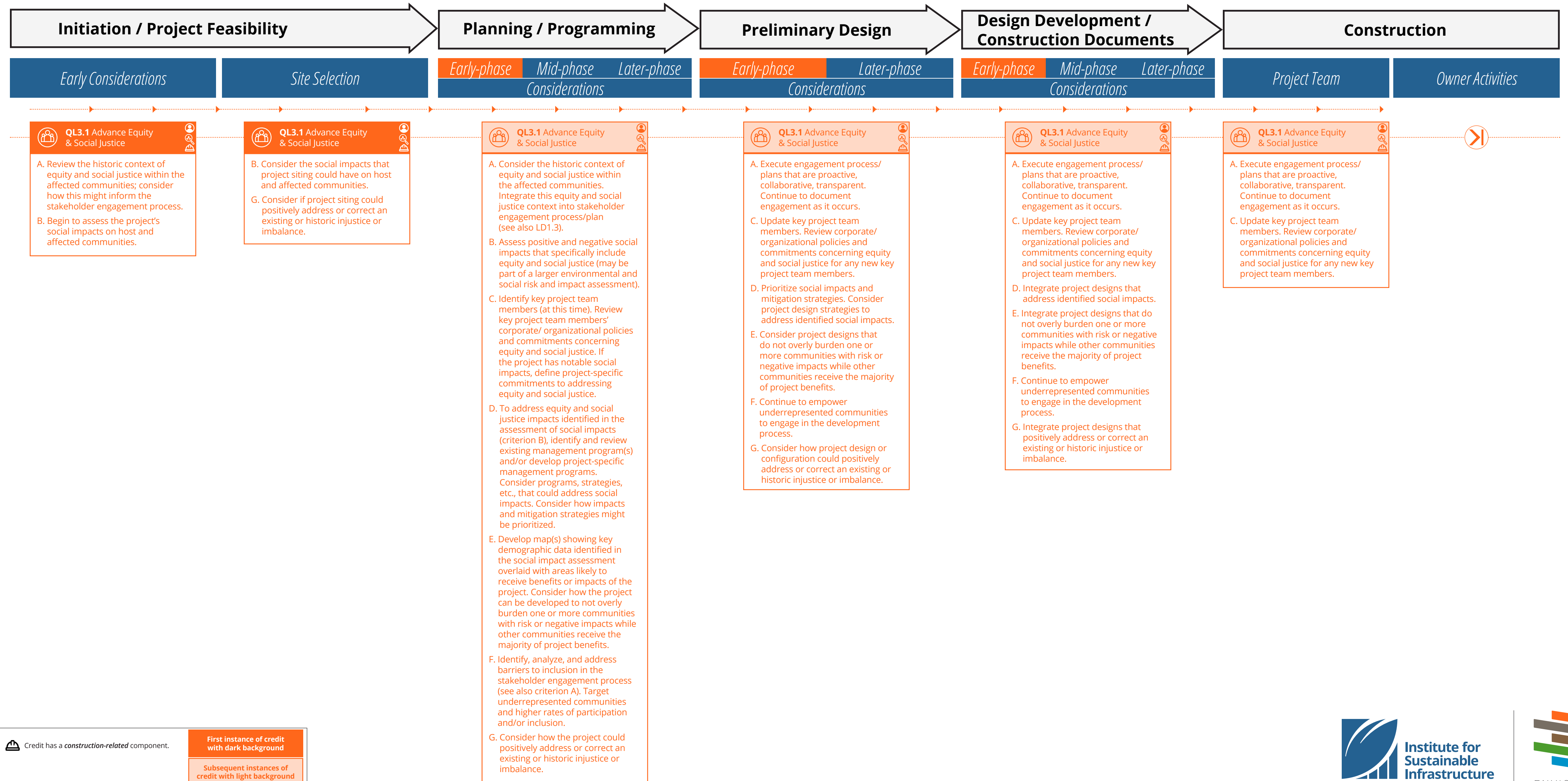
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Stakeholder Engagement

Quality of Life

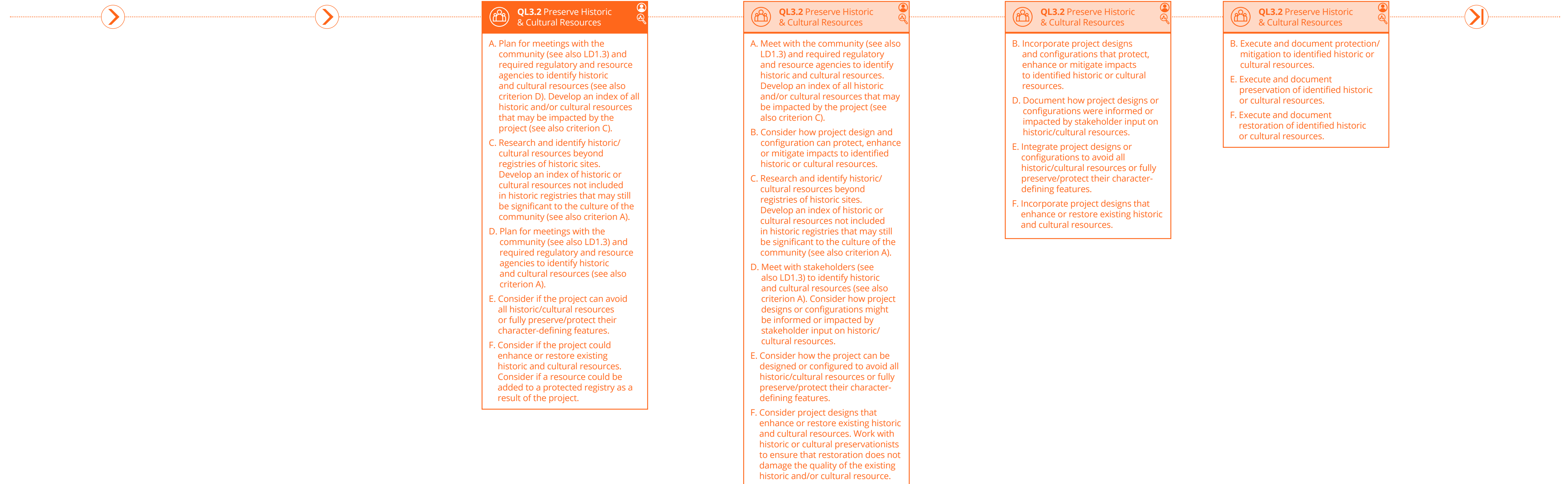
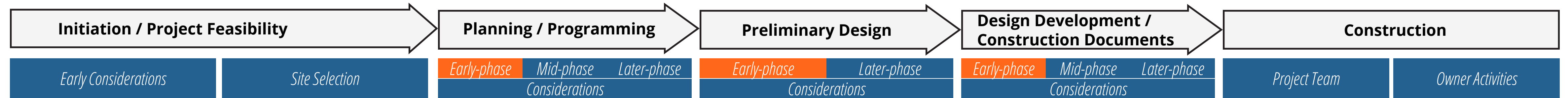
Leadership

Resource Allocation

Natural World

Climate & Resilience

QUALITY OF LIFE



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First instance of credit with dark background

Subsequent instances of credit with light background

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Full Roadmap

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Design Development / Construction Documents

Construction

Environmental

Stakeholder Engagement

Quality of Life

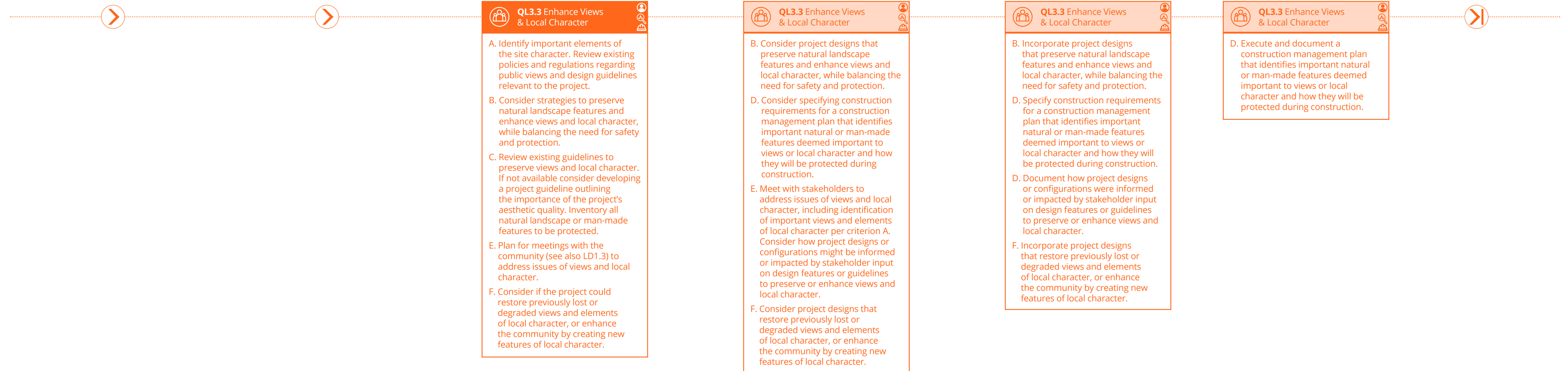
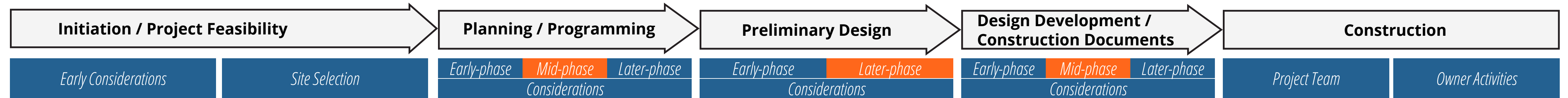
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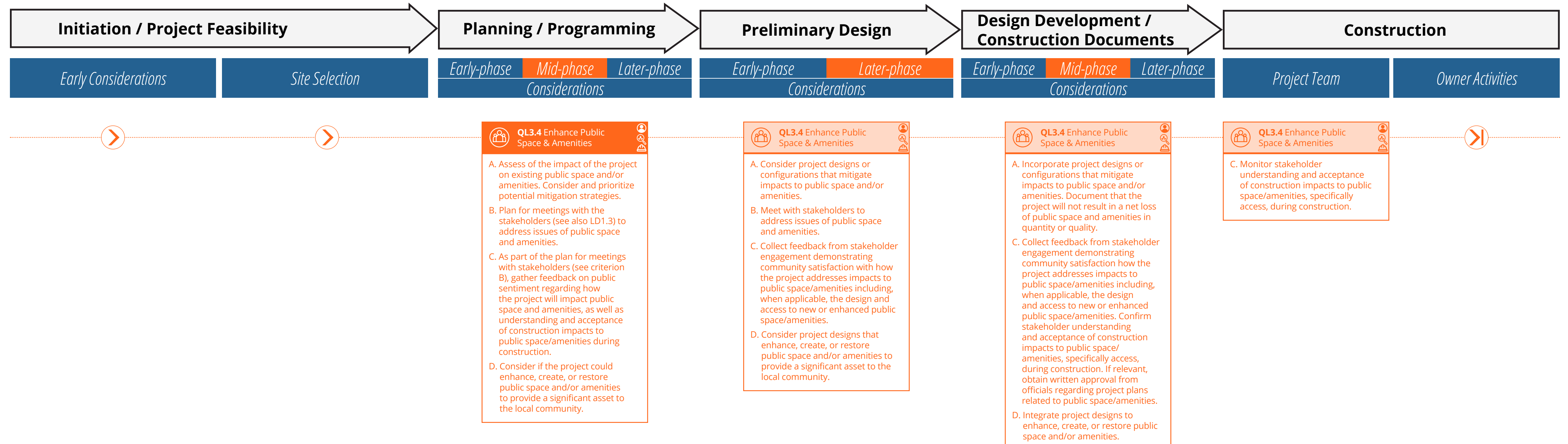
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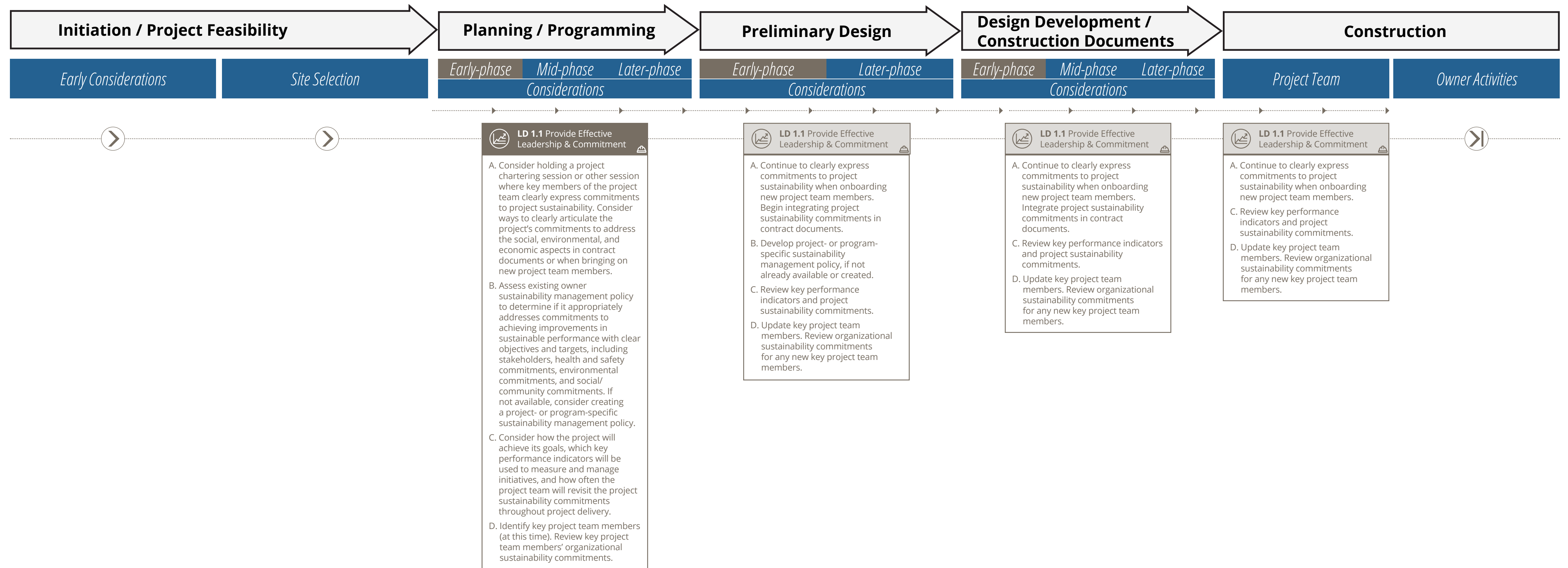
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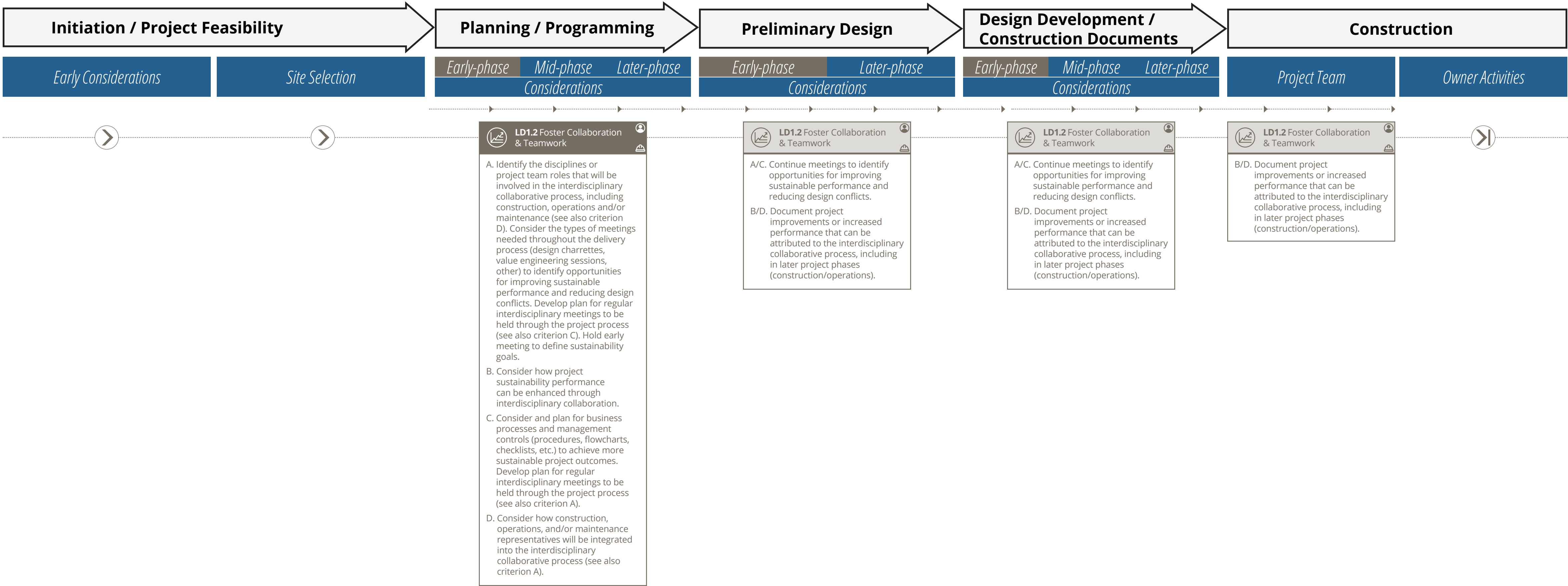
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LEADERSHIP



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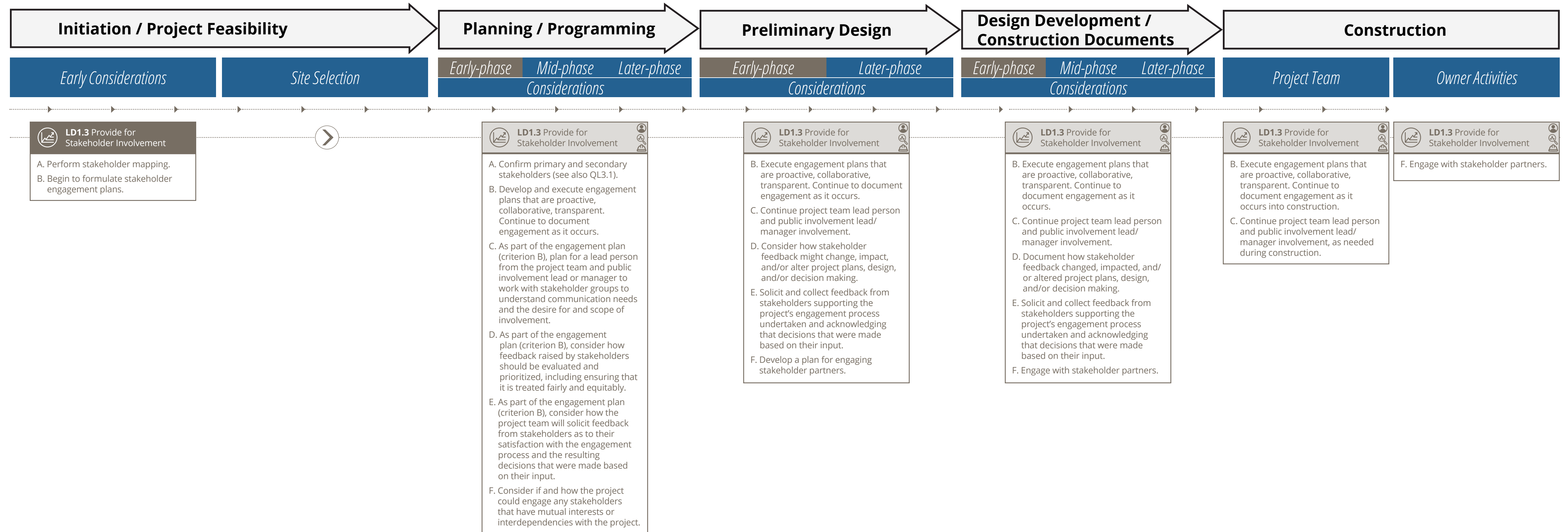
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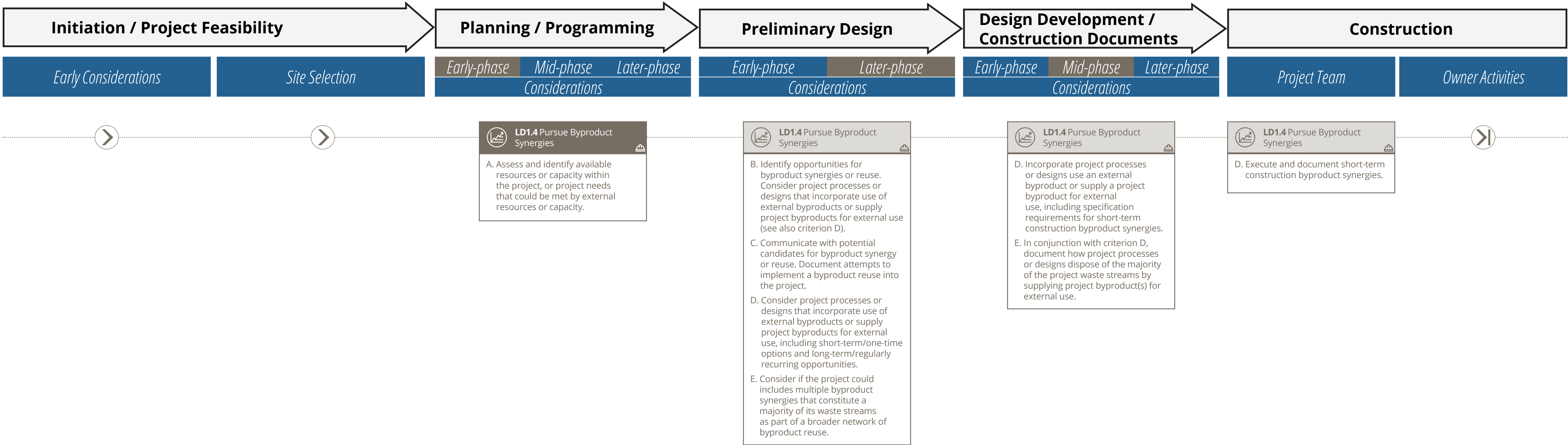
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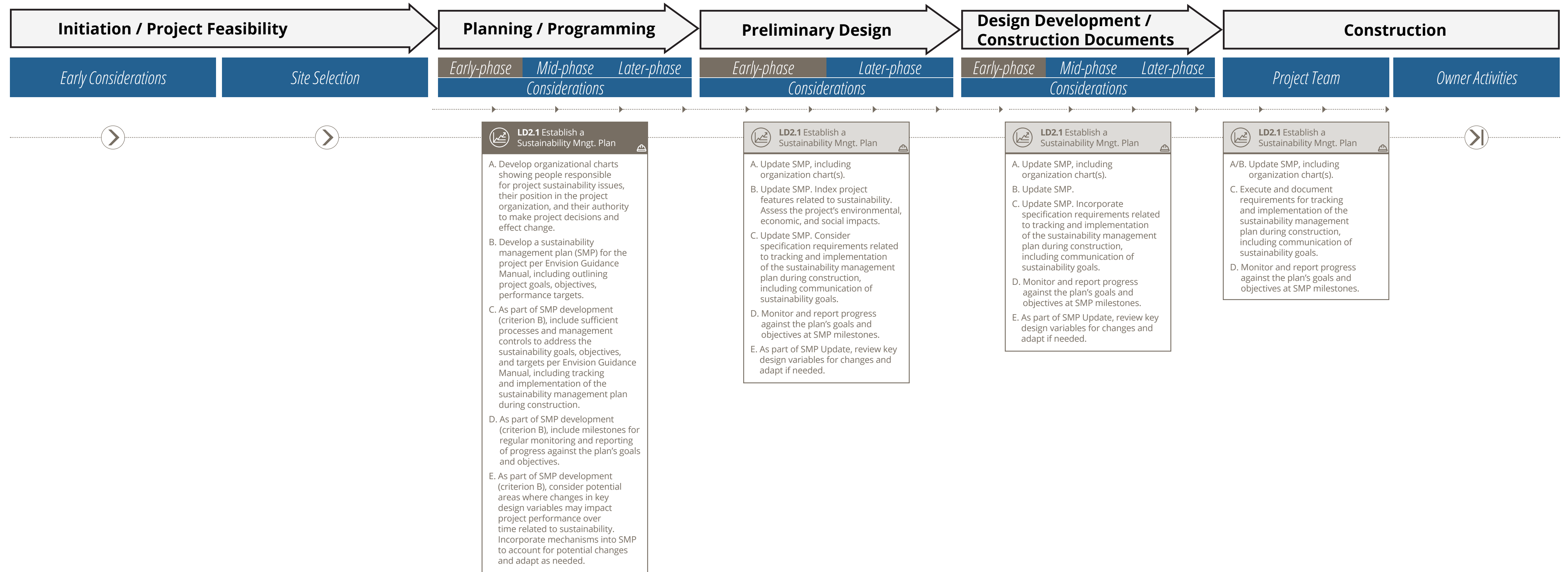
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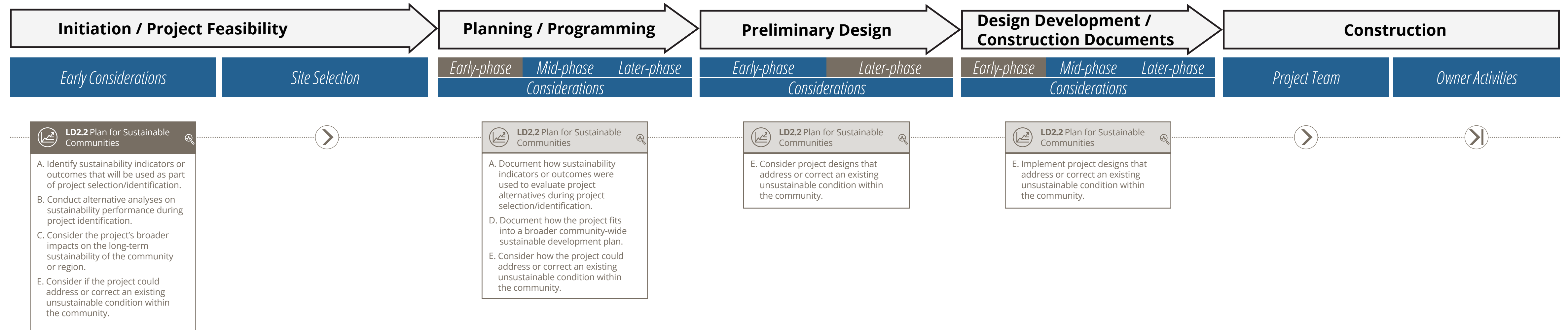
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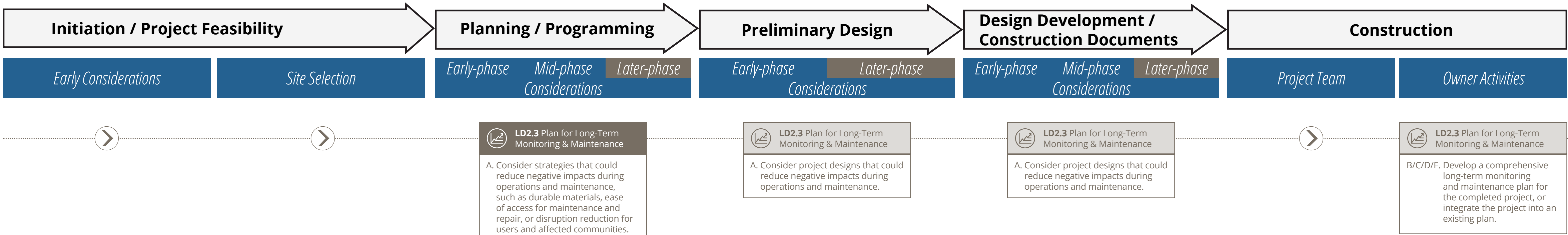
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LEADERSHIP



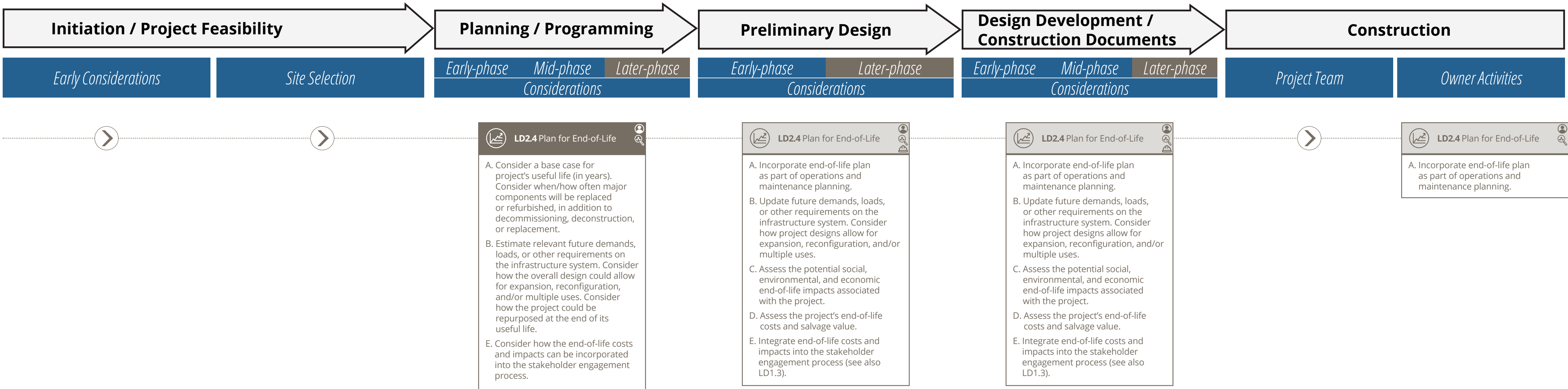
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LEADERSHIP



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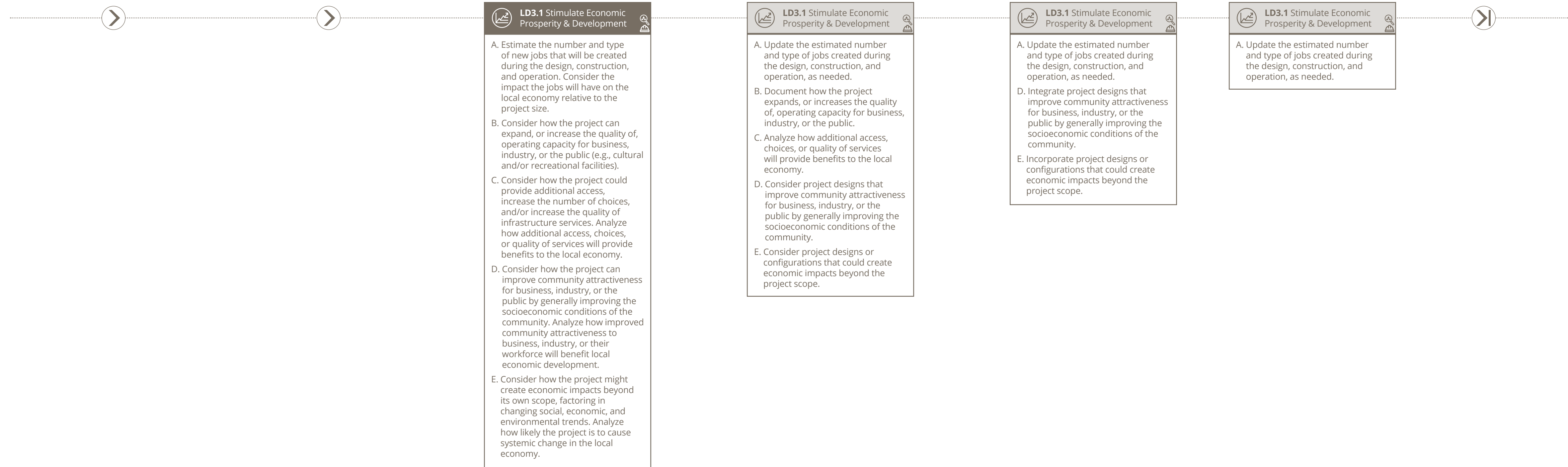
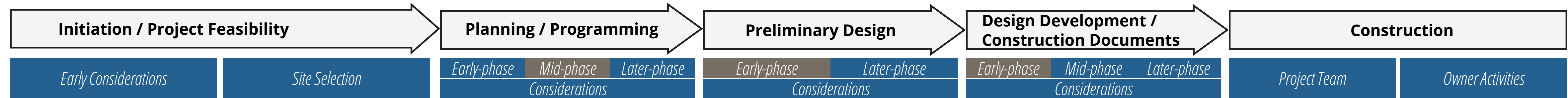
LEADERSHIP



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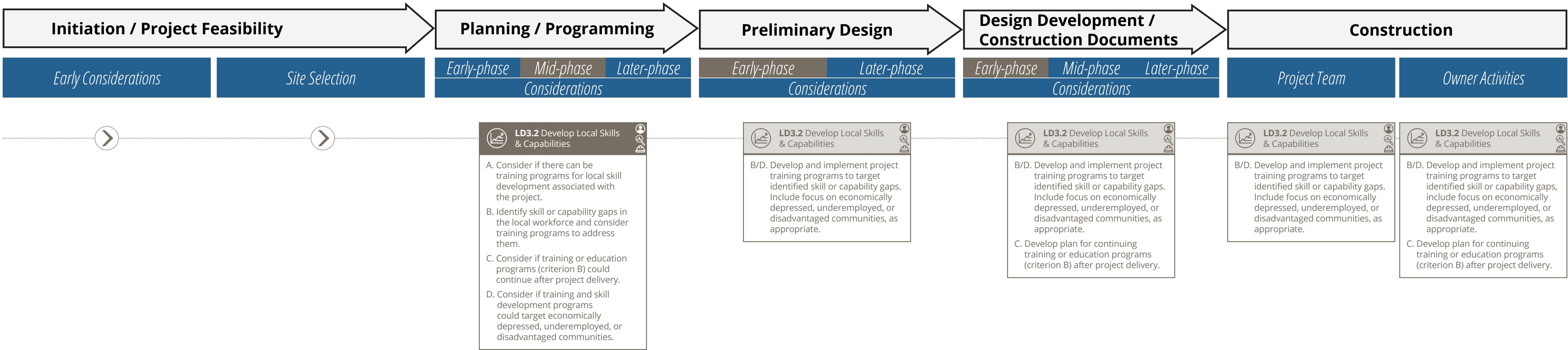


LEADERSHIP



ENVISION CREDIT NAVIGATOR - CREDIT PROGRESSION

LEADERSHIP



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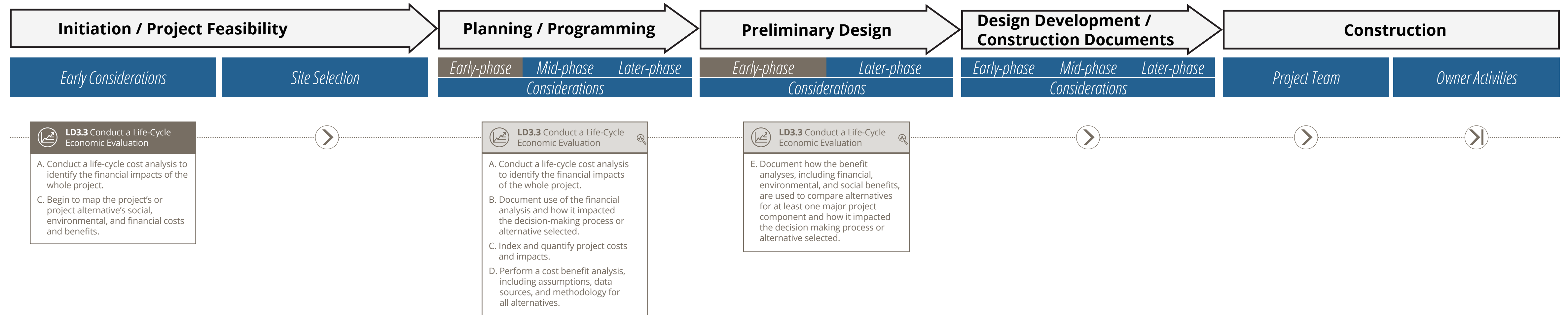
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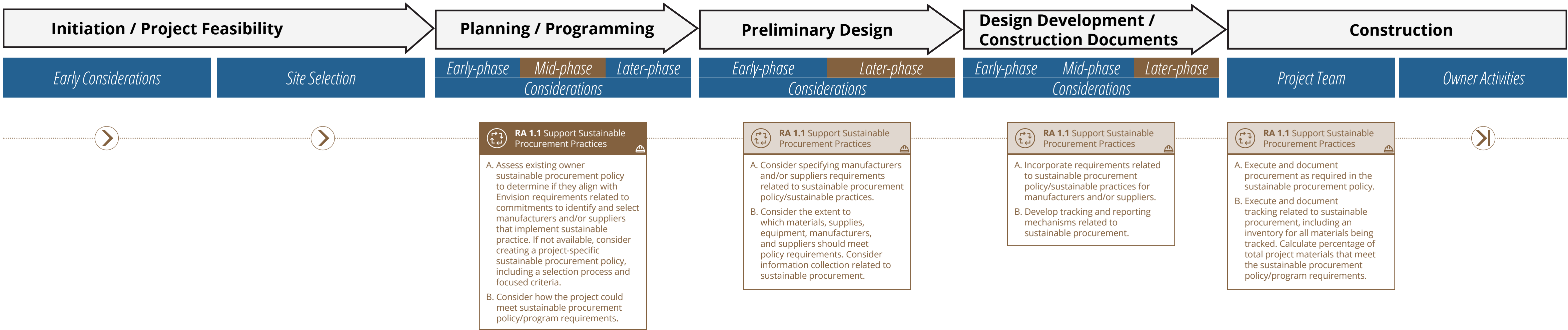
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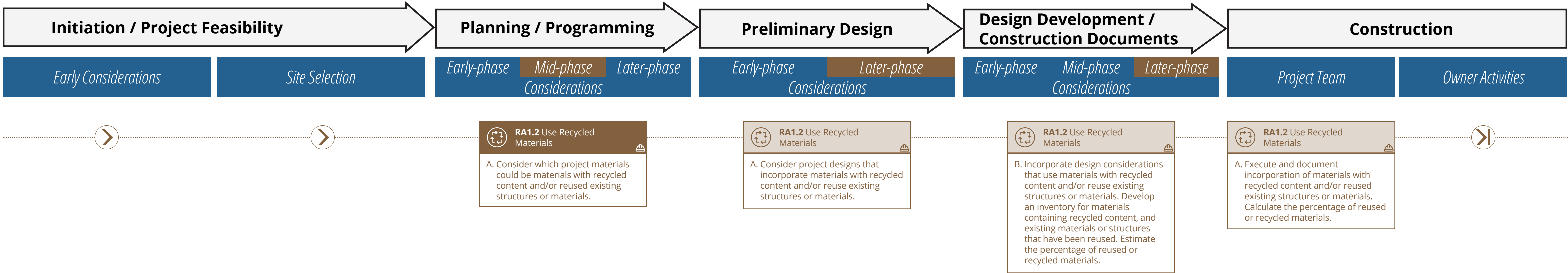
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RESOURCE ALLOCATION



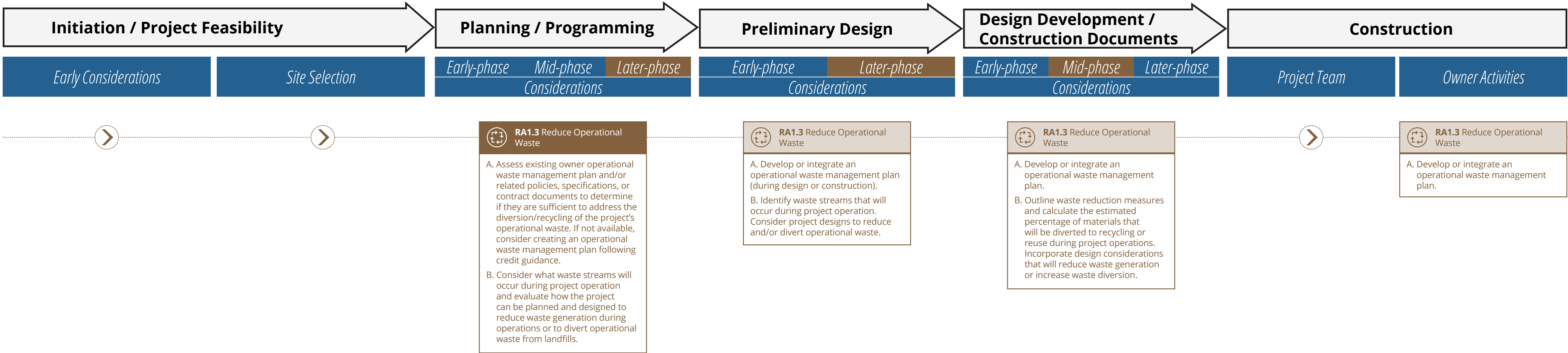
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RESOURCE ALLOCATION



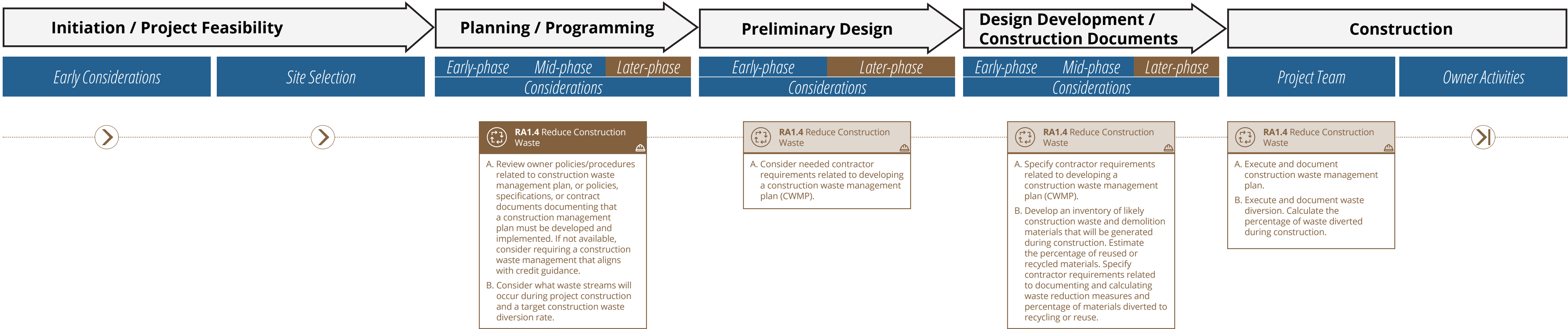
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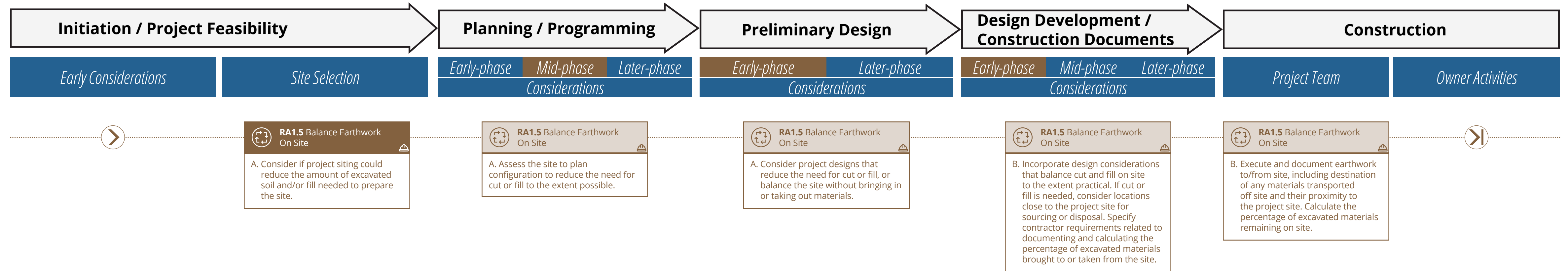
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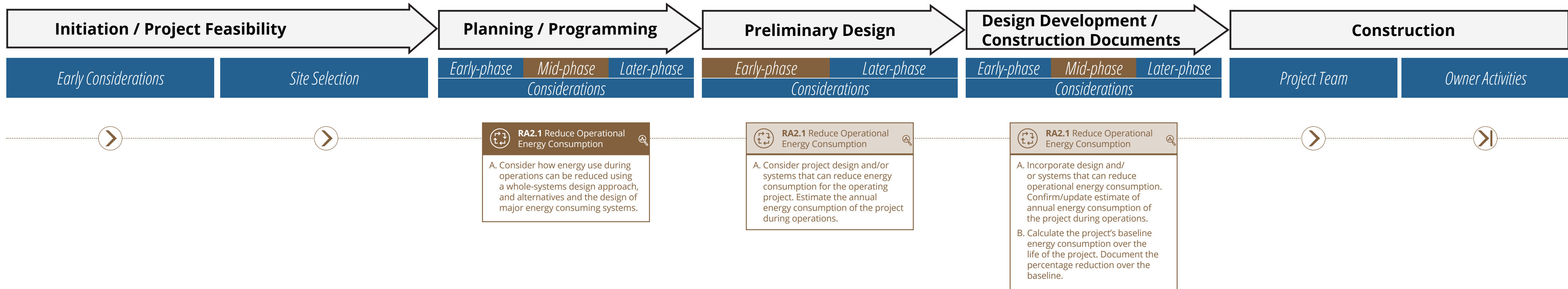
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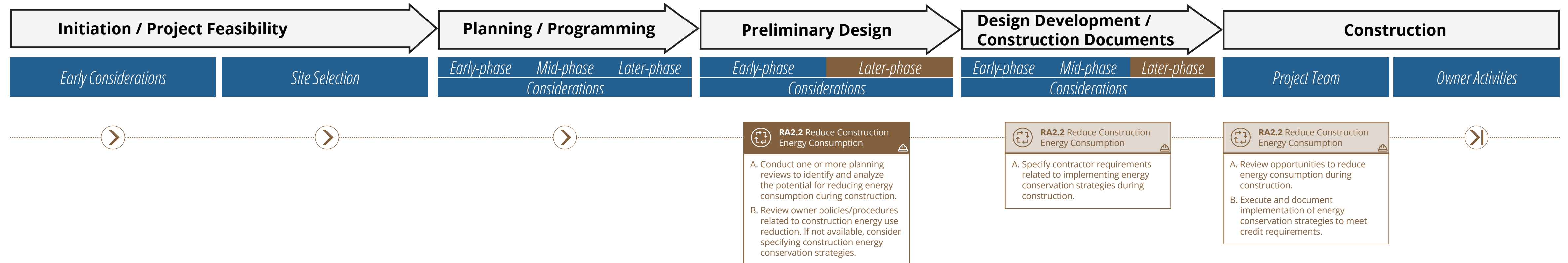
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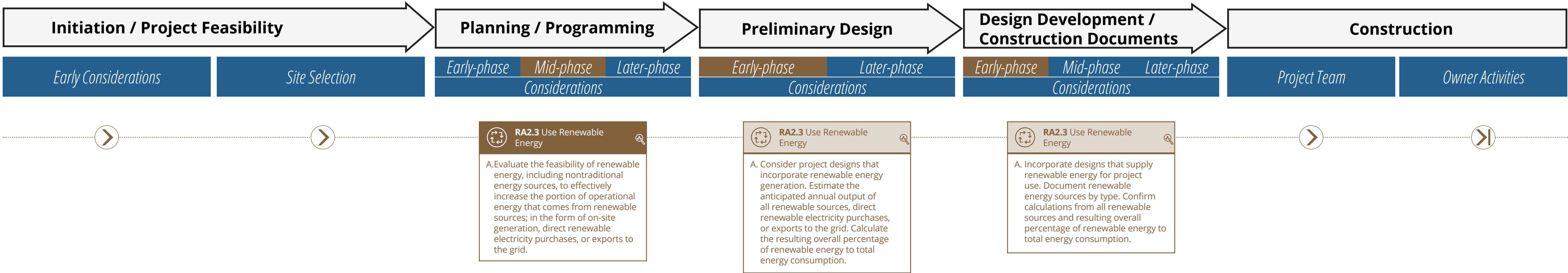
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RESOURCE ALLOCATION



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RESOURCE ALLOCATION



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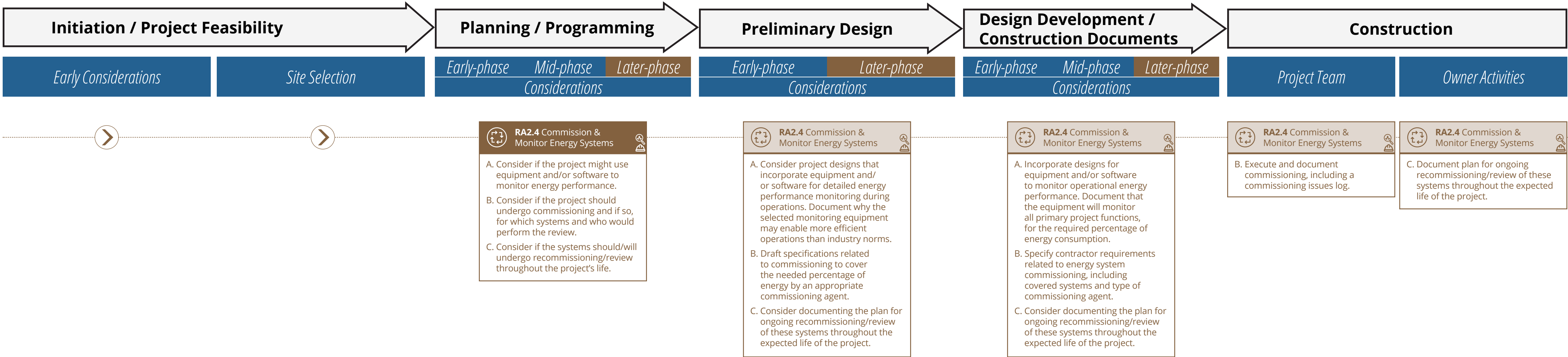
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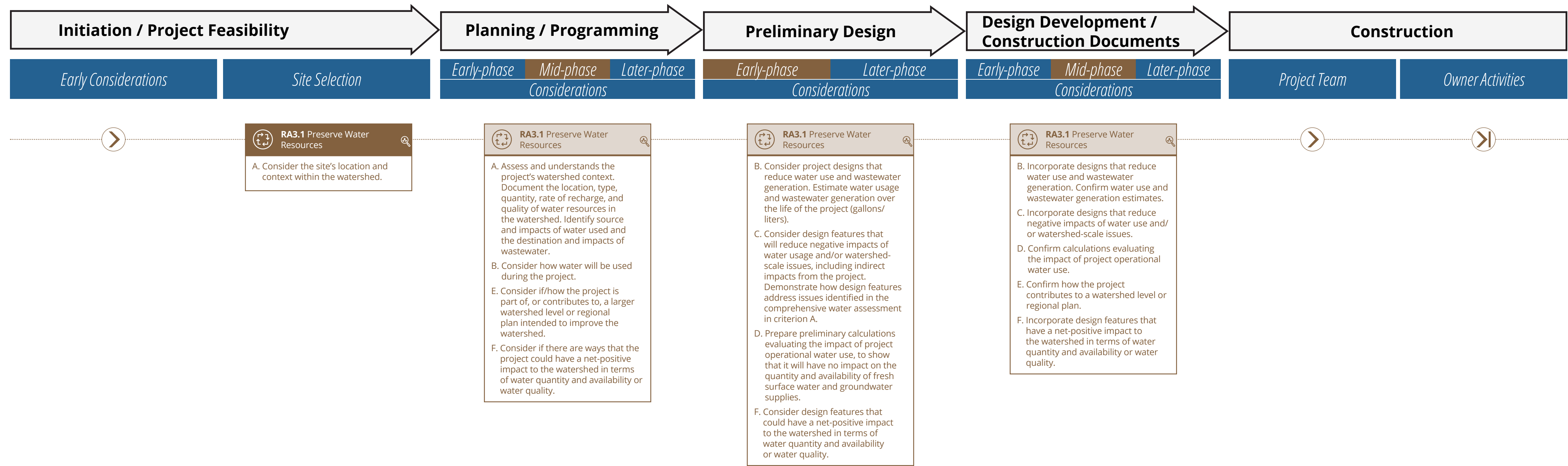
- Full Roadmap
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- Climate & Resilience

RESOURCE ALLOCATION



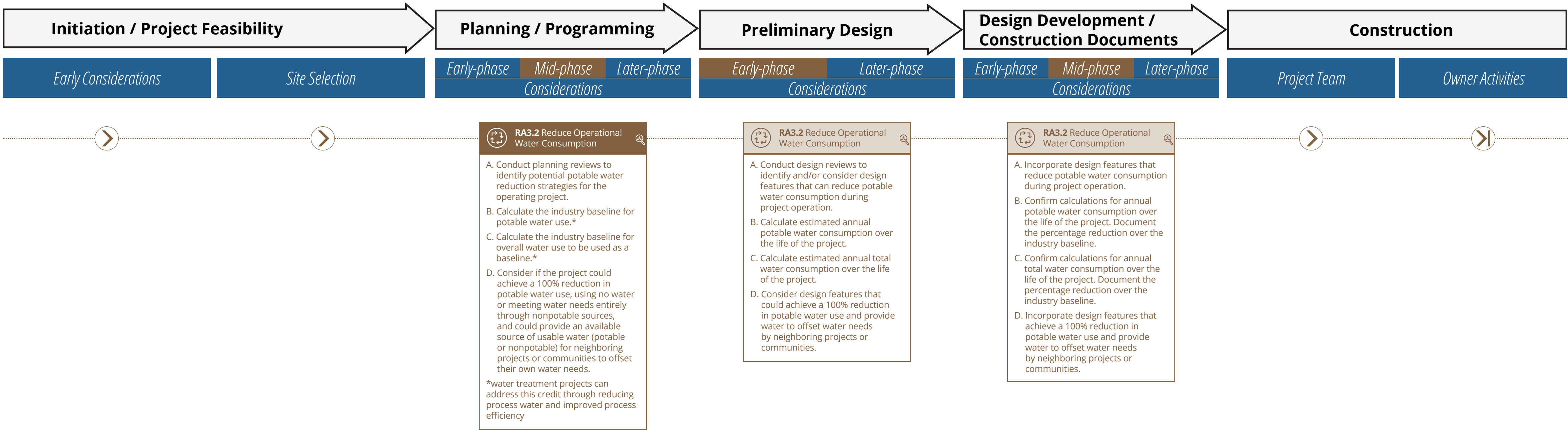
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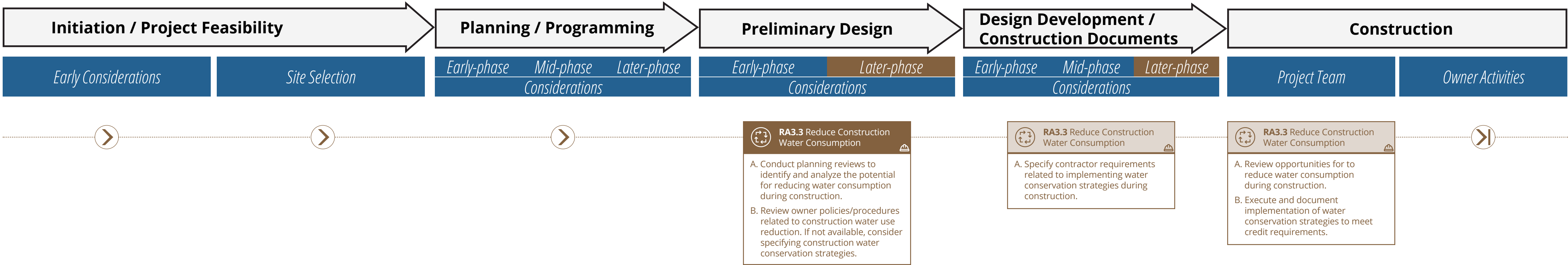
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RESOURCE ALLOCATION



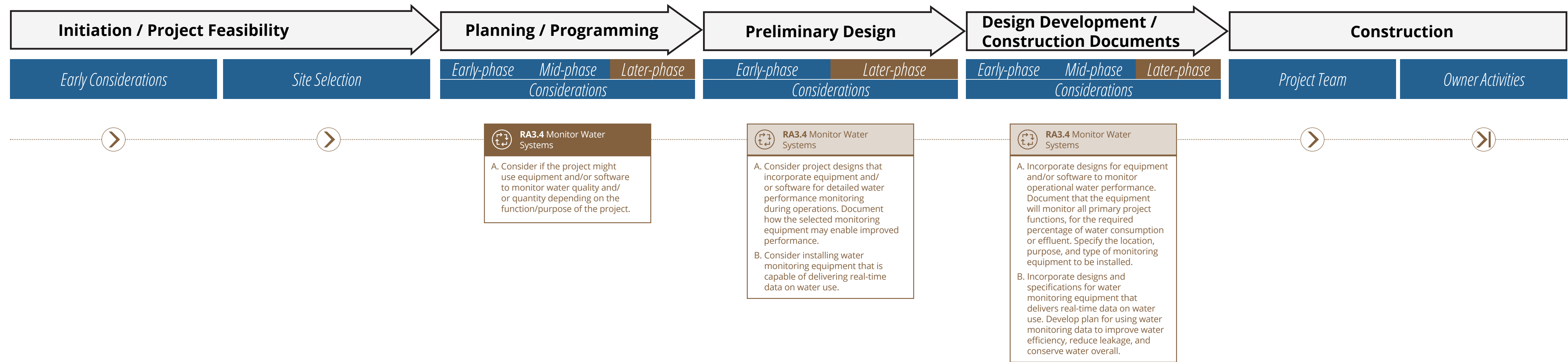
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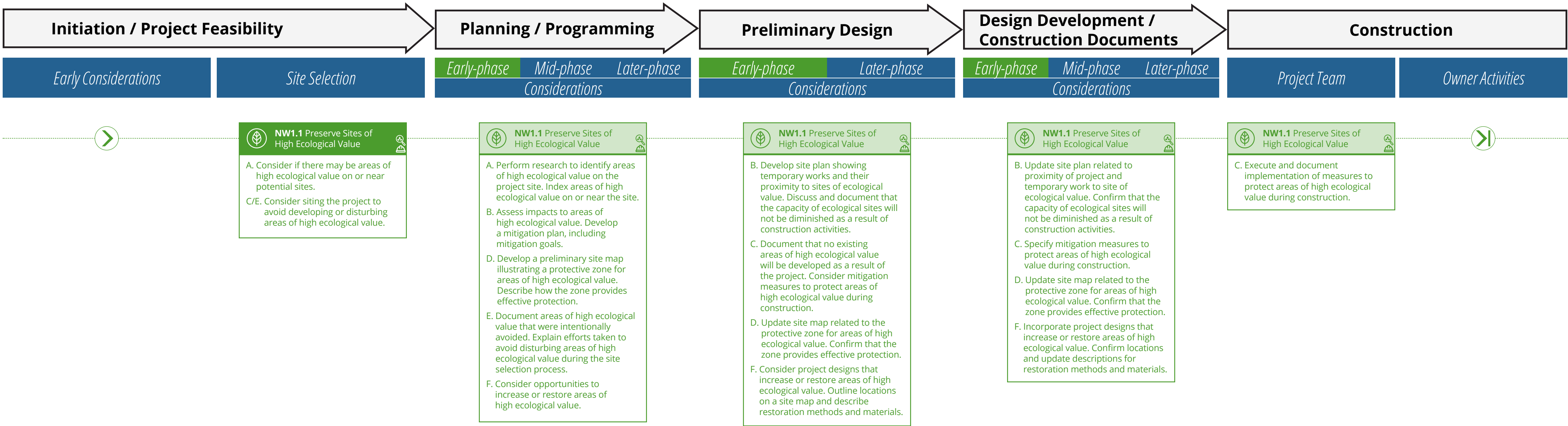
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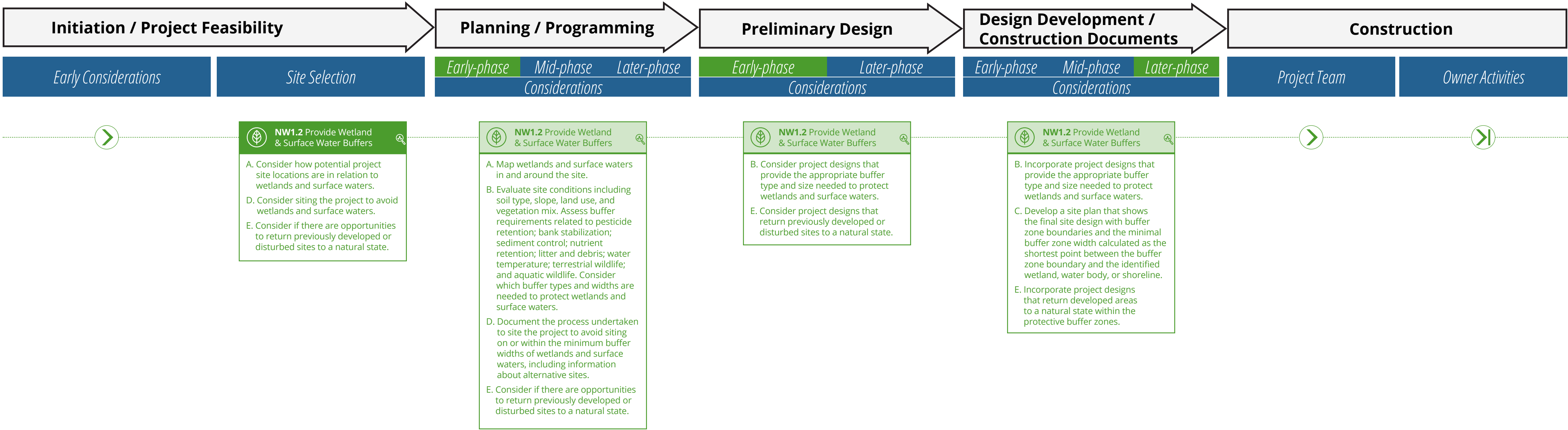
ENVISION CREDIT NAVIGATOR - CREDIT PROGRESSION

NATURAL WORLD



ENVISION CREDIT NAVIGATOR - CREDIT PROGRESSION

NATURAL WORLD



ENVISION CREDIT NAVIGATOR - CREDIT PROGRESSION

Full Roadmap

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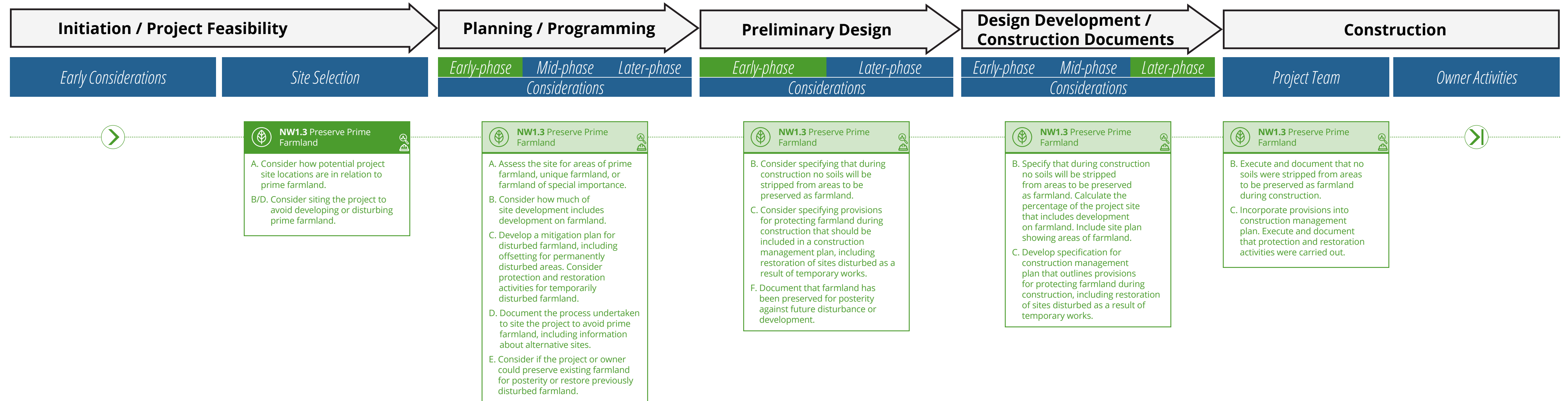
Leadership

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NATURAL WORLD



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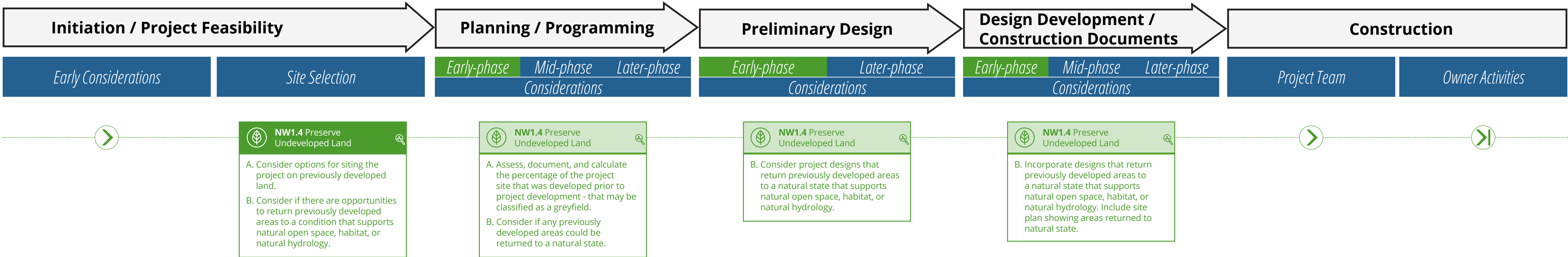
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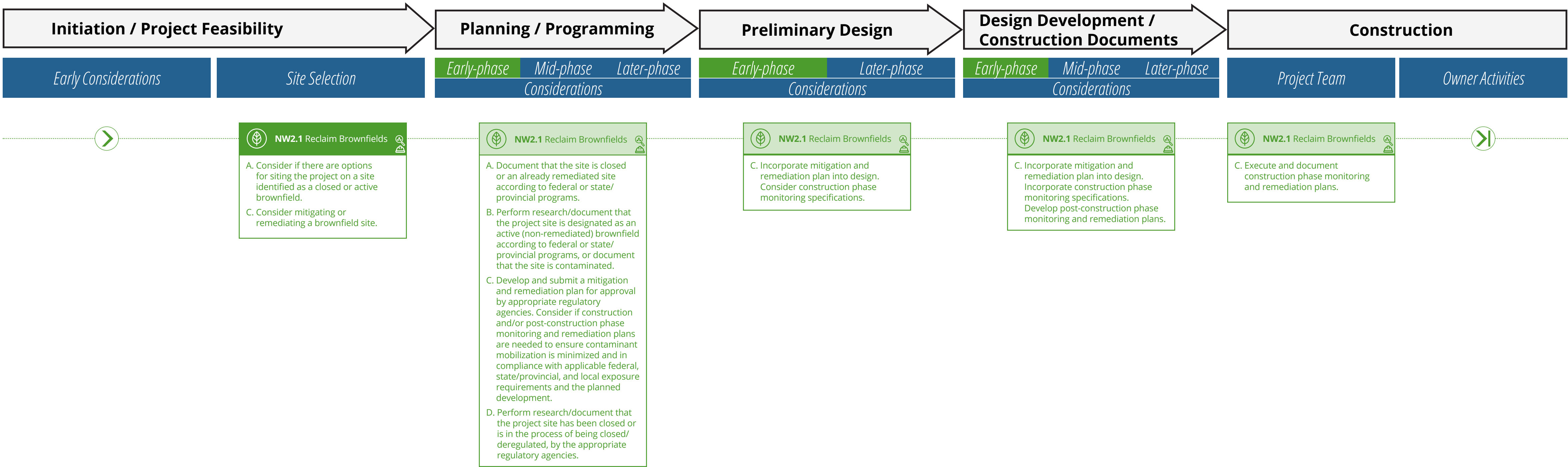
ENVISION CREDIT NAVIGATOR - CREDIT PROGRESSION

NATURAL WORLD



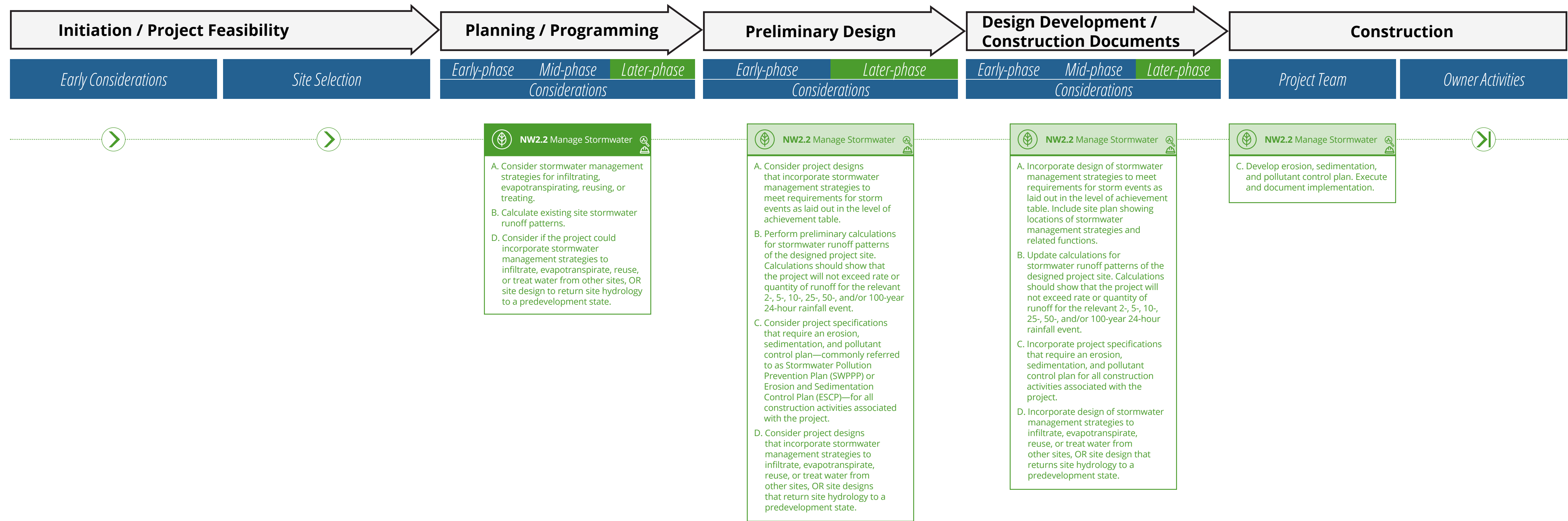
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NATURAL WORLD



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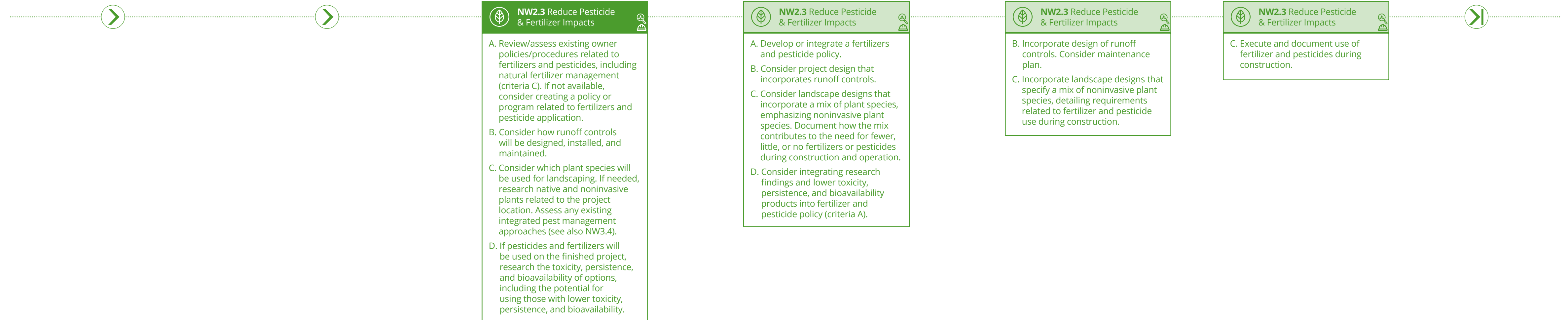
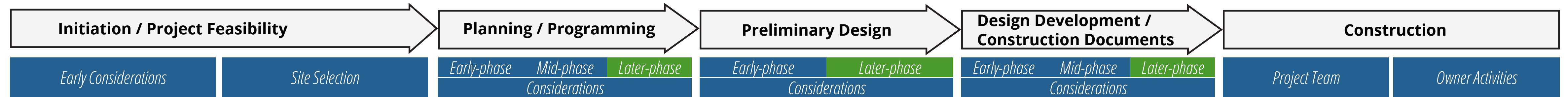
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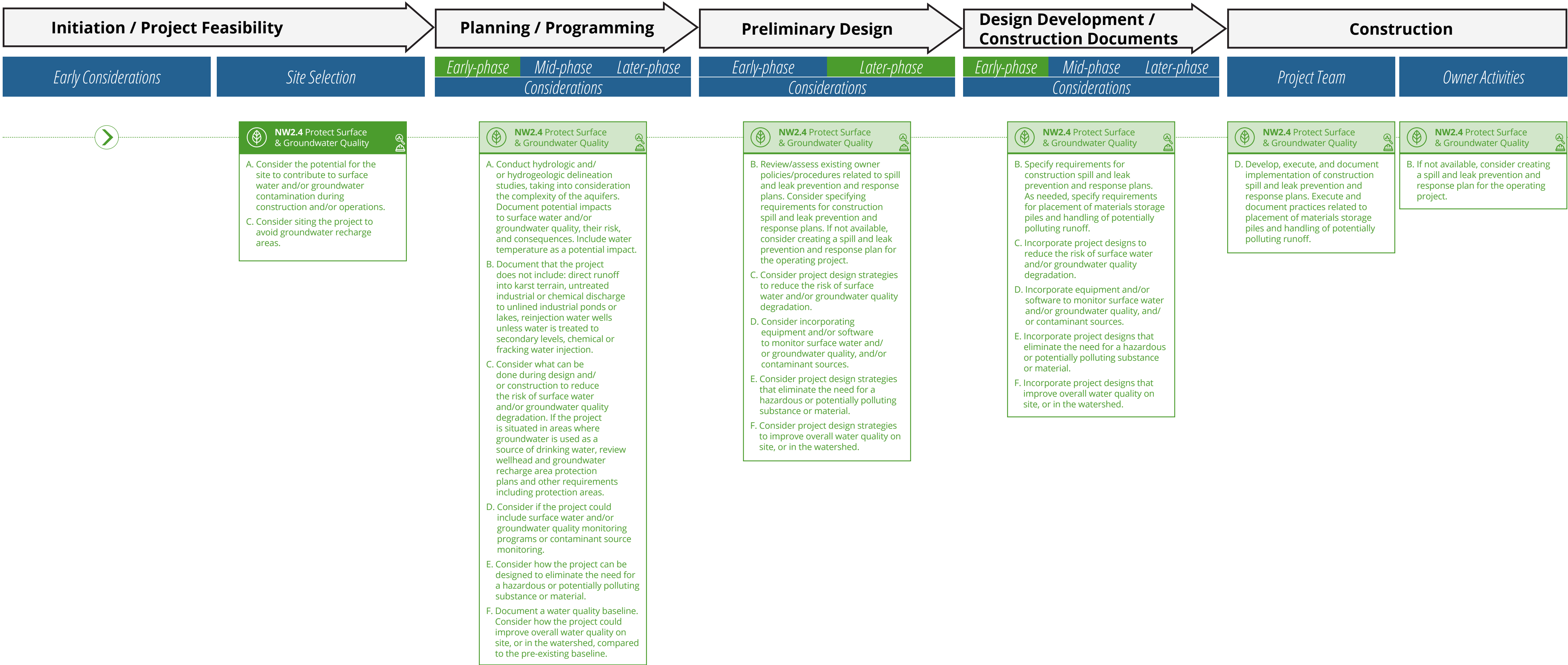
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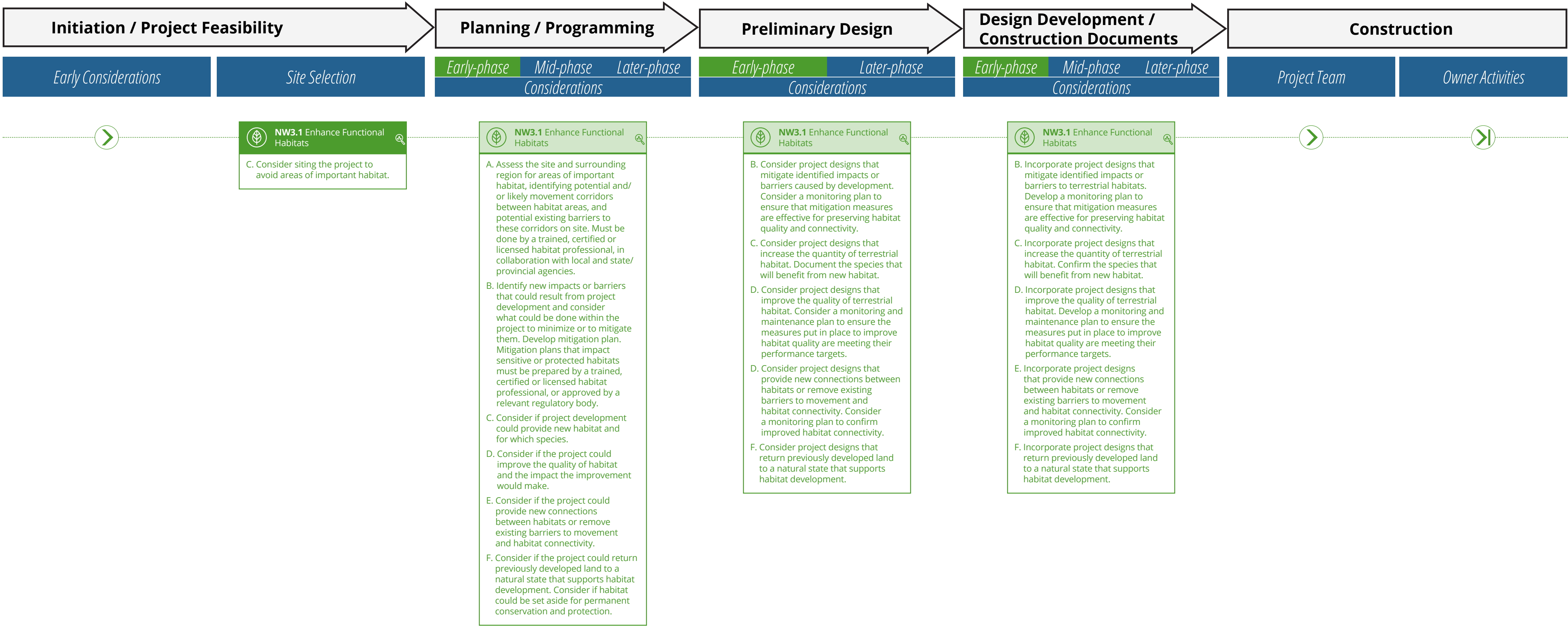
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NATURAL WORLD



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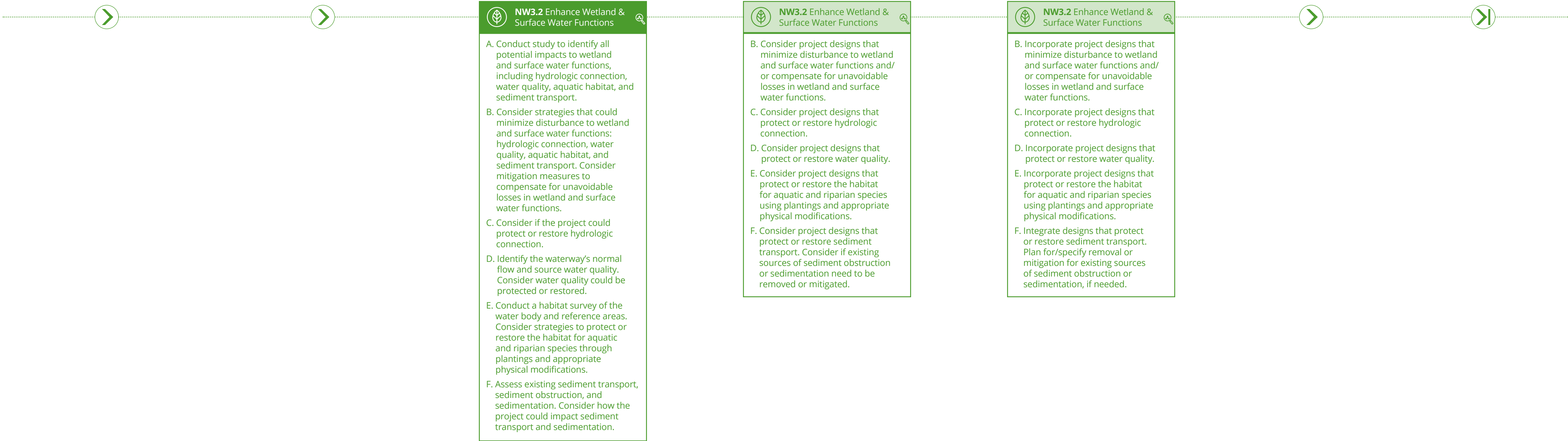
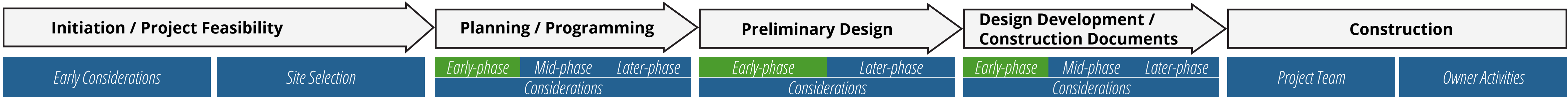
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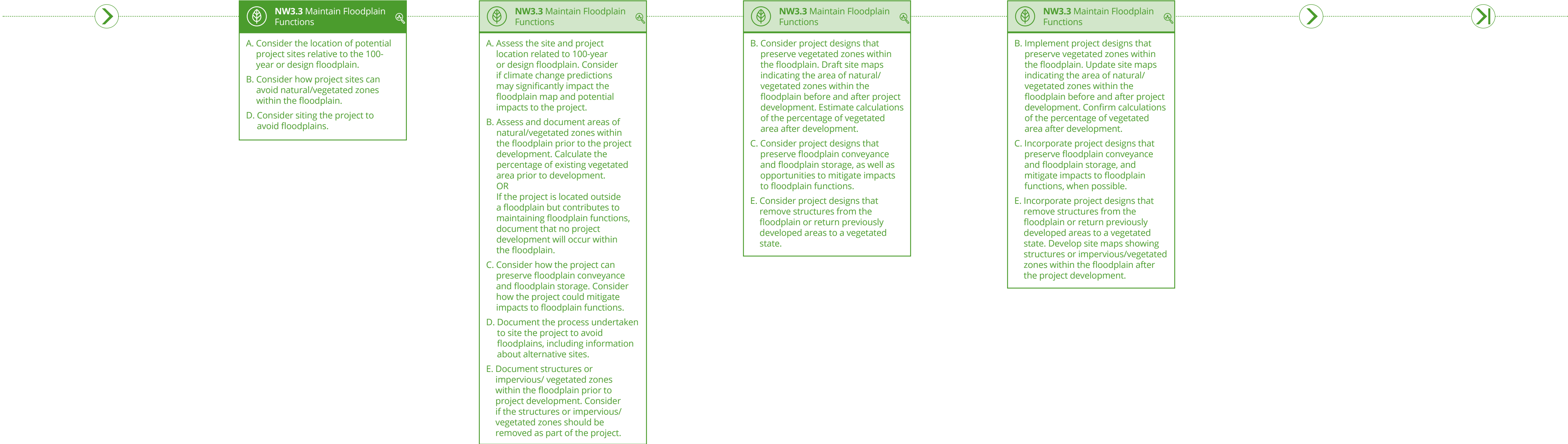
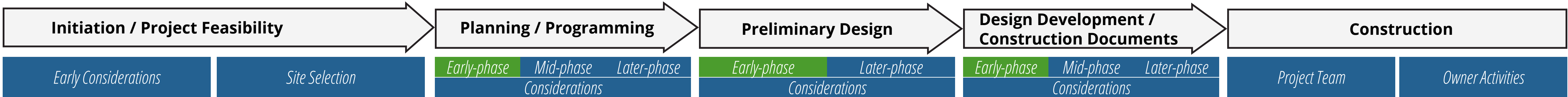


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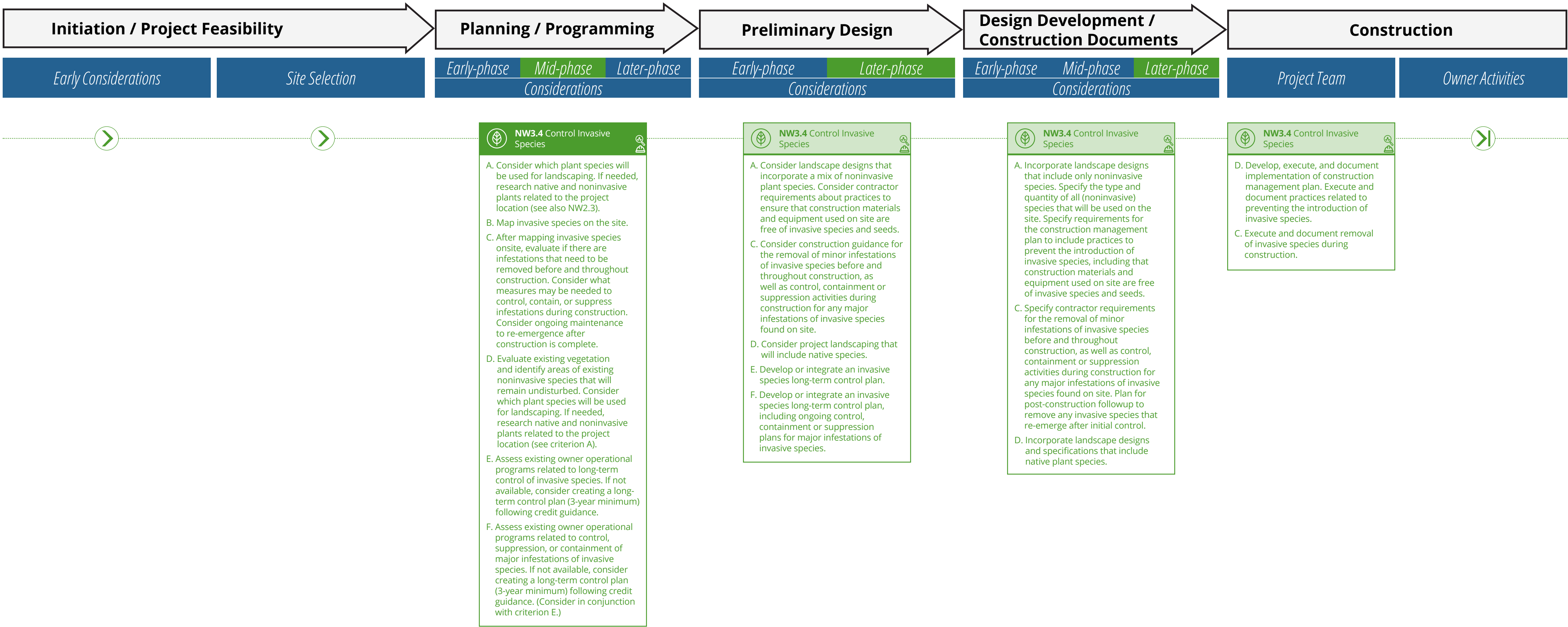
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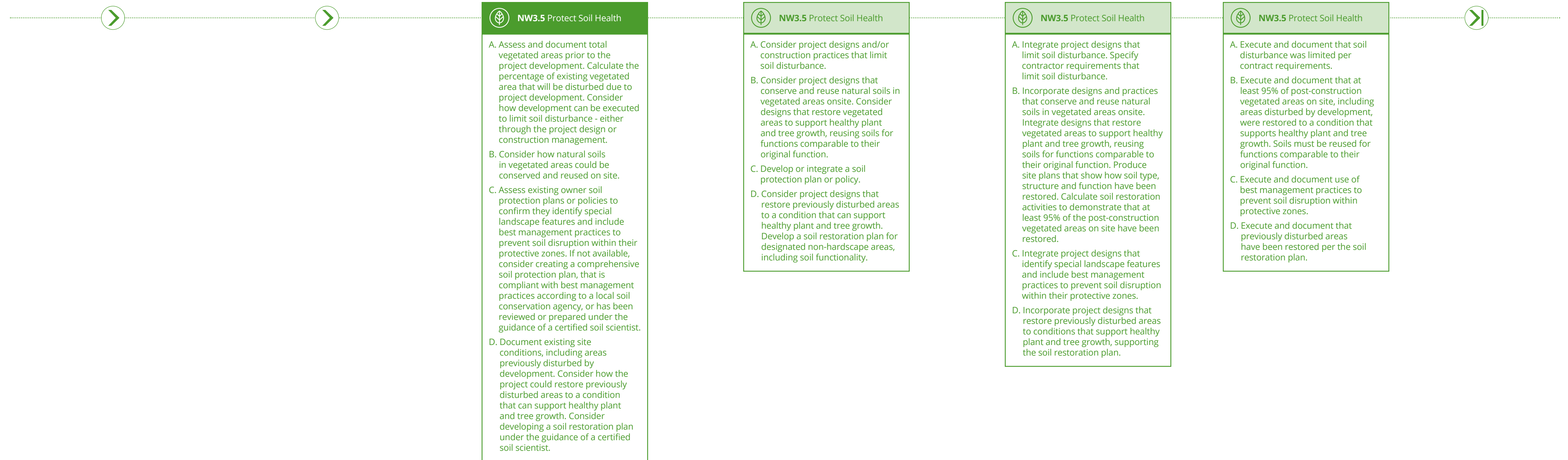
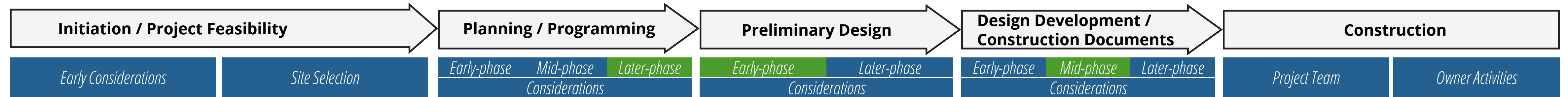
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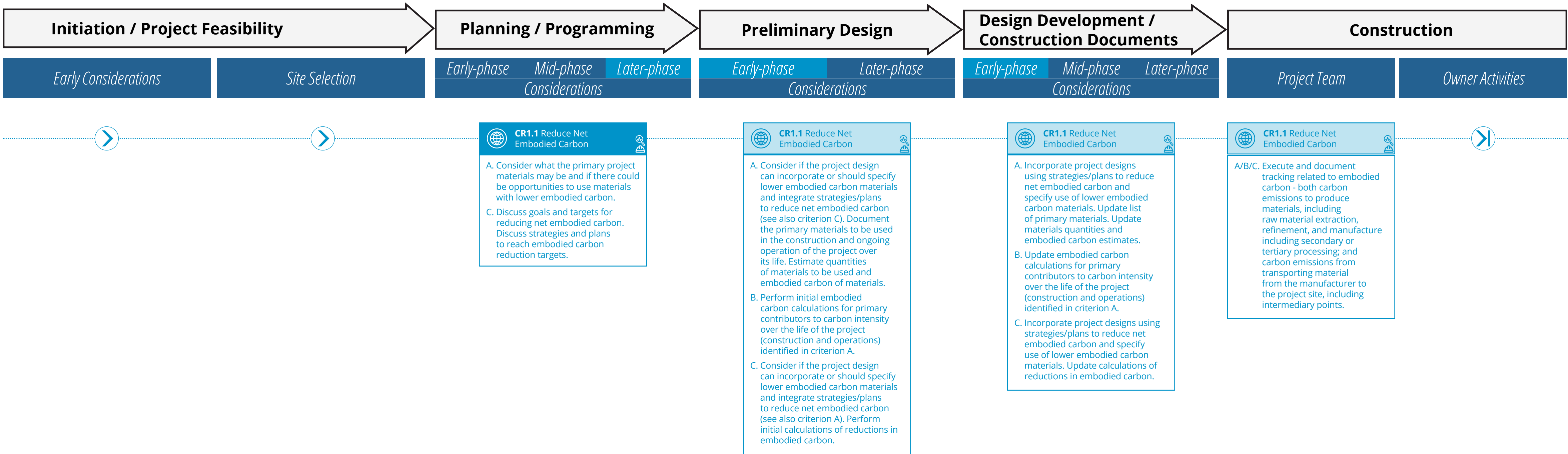
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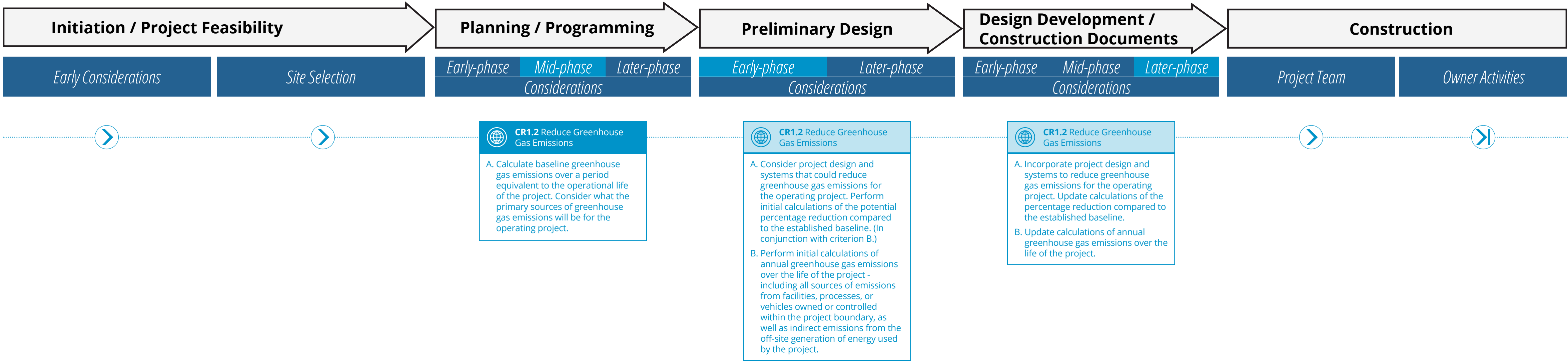
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CLIMATE & RESILIENCE



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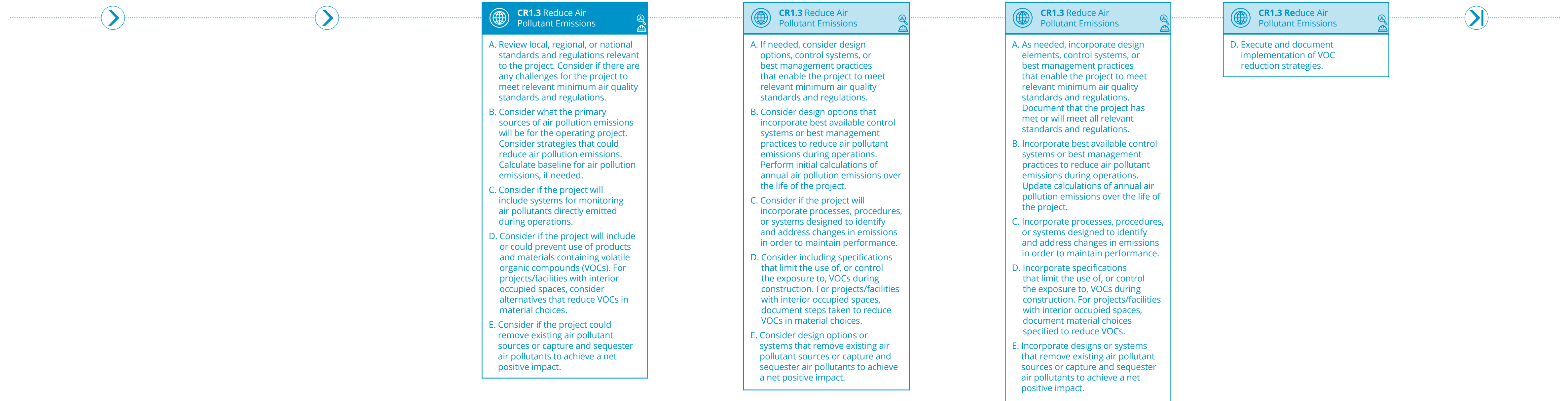
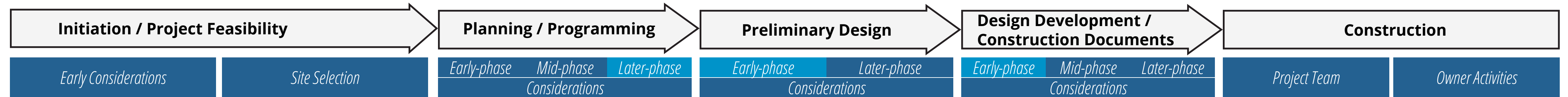
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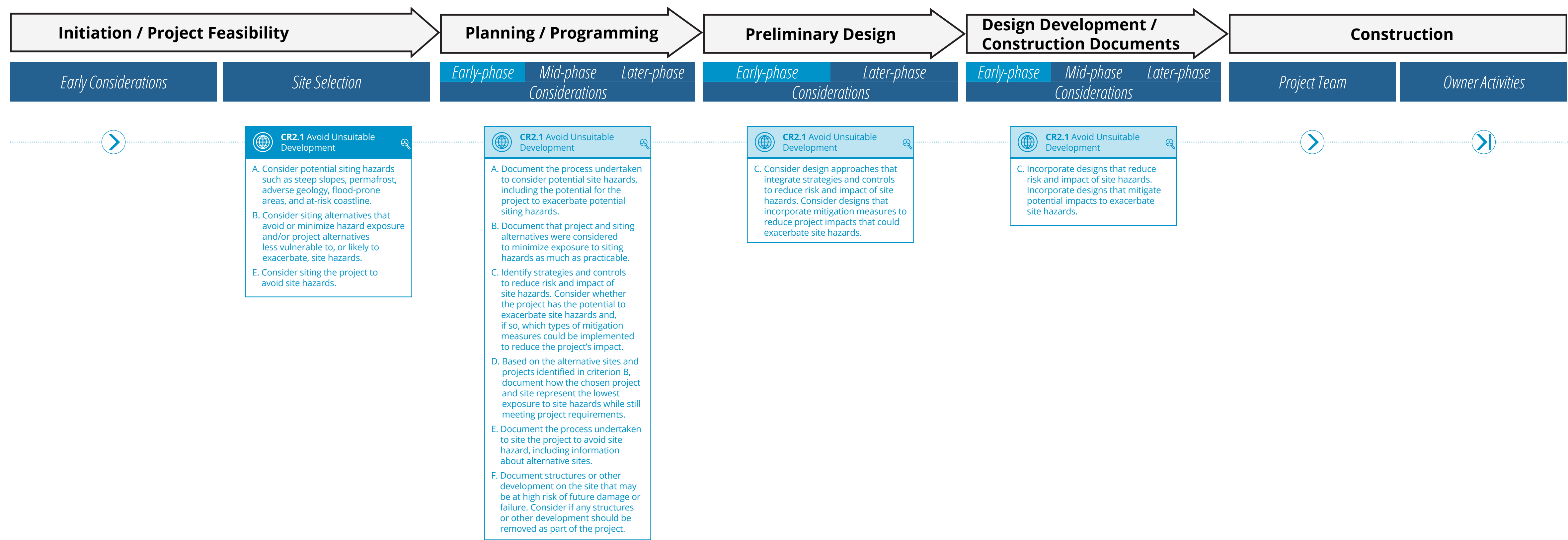


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CLIMATE & RESILIENCE



CR2.1 Avoid Unsuitable Development

A. Consider potential siting hazards such as steep slopes, permafrost, adverse geology, flood-prone areas, and at-risk coastline.

B. Consider siting alternatives that avoid or minimize hazard exposure and/or project alternatives less vulnerable to, or likely to exacerbate, site hazards.

E. Consider siting the project to avoid site hazards.

CR2.1 Avoid Unsuitable Development

A. Document the process undertaken to consider potential site hazards, including the potential for the project to exacerbate potential siting hazards.

B. Document that project and siting alternatives were considered to minimize exposure to siting hazards as much as practicable.

C. Identify strategies and controls to reduce risk and impact of site hazards. Consider whether the project has the potential to exacerbate site hazards and, if so, which types of mitigation measures could be implemented to reduce the project's impact.

D. Based on the alternative sites and projects identified in criterion B, document how the chosen project and site represent the lowest exposure to site hazards while still meeting project requirements.

E. Document the process undertaken to site the project to avoid site hazard, including information about alternative sites.

F. Document structures or other development on the site that may be at high risk of future damage or failure. Consider if any structures or other development should be removed as part of the project.

CR2.1 Avoid Unsuitable Development

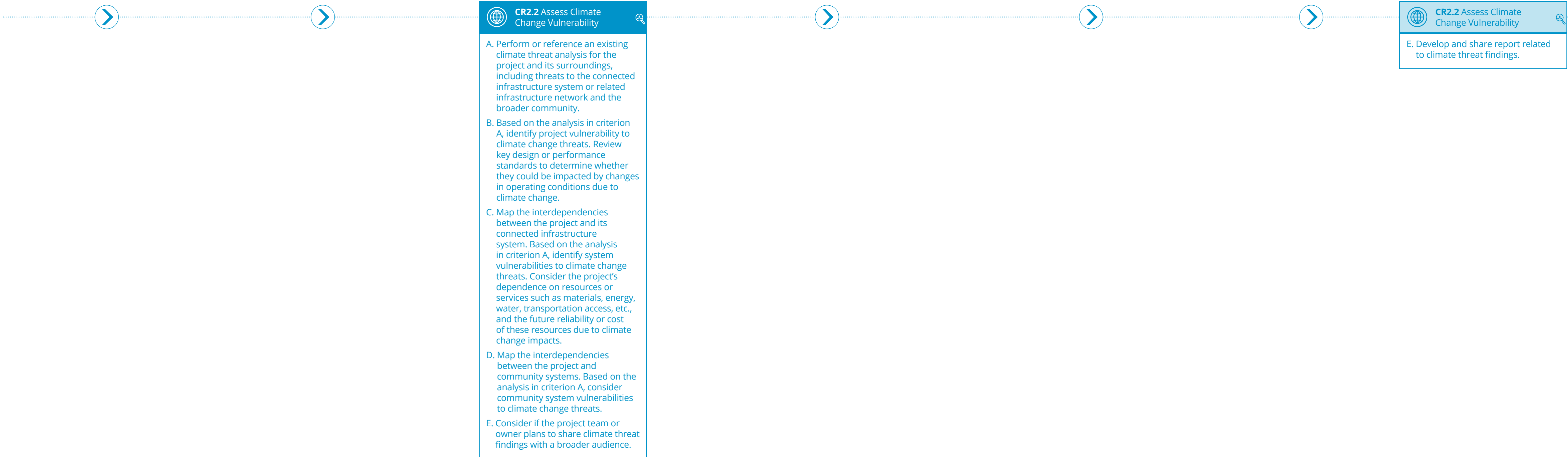
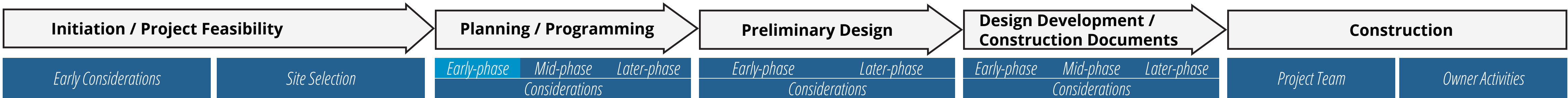
C. Consider design approaches that integrate strategies and controls to reduce risk and impact of site hazards. Consider designs that incorporate mitigation measures to reduce project impacts that could exacerbate site hazards.

CR2.1 Avoid Unsuitable Development

C. Incorporate designs that reduce risk and impact of site hazards. Incorporate designs that mitigate potential impacts to exacerbate site hazards.

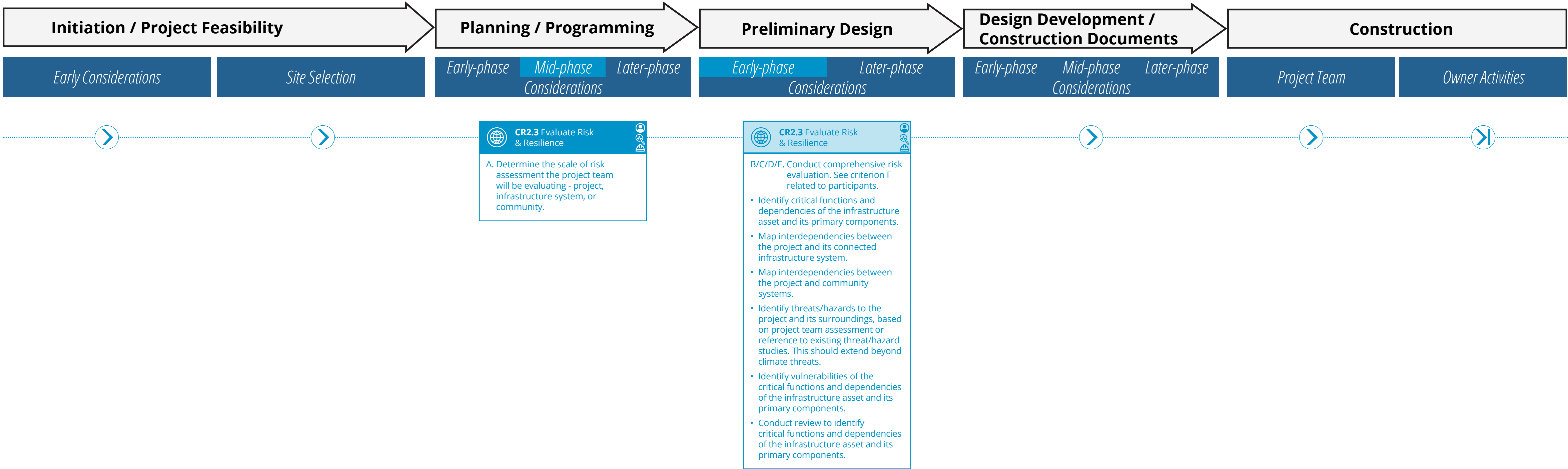
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CLIMATE & RESILIENCE



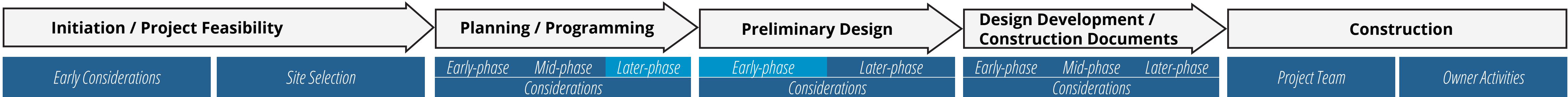
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CLIMATE & RESILIENCE



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CLIMATE & RESILIENCE



 **CR2.4** Establish Resilience Goals and Strategies  

A. Discuss the project's key performance objectives as they apply to the risk assessment. Review and discuss the owner's approach to risk management on the project and appetite for risk. See criterion C related to stakeholder participation.

C. Consider who should be engaged in developing or reviewing resilience goals, including how stakeholders represent a diverse set of perspectives appropriate to the scope of the project.

D. Research or review community or regional resilience goals. Consider how the project connects, contributes to or supports the broader community resilience goals. If there are not community- or region-wide resilience goals, consider sharing the project's resilience goals publicly to support development of broader resilience goals within the community.

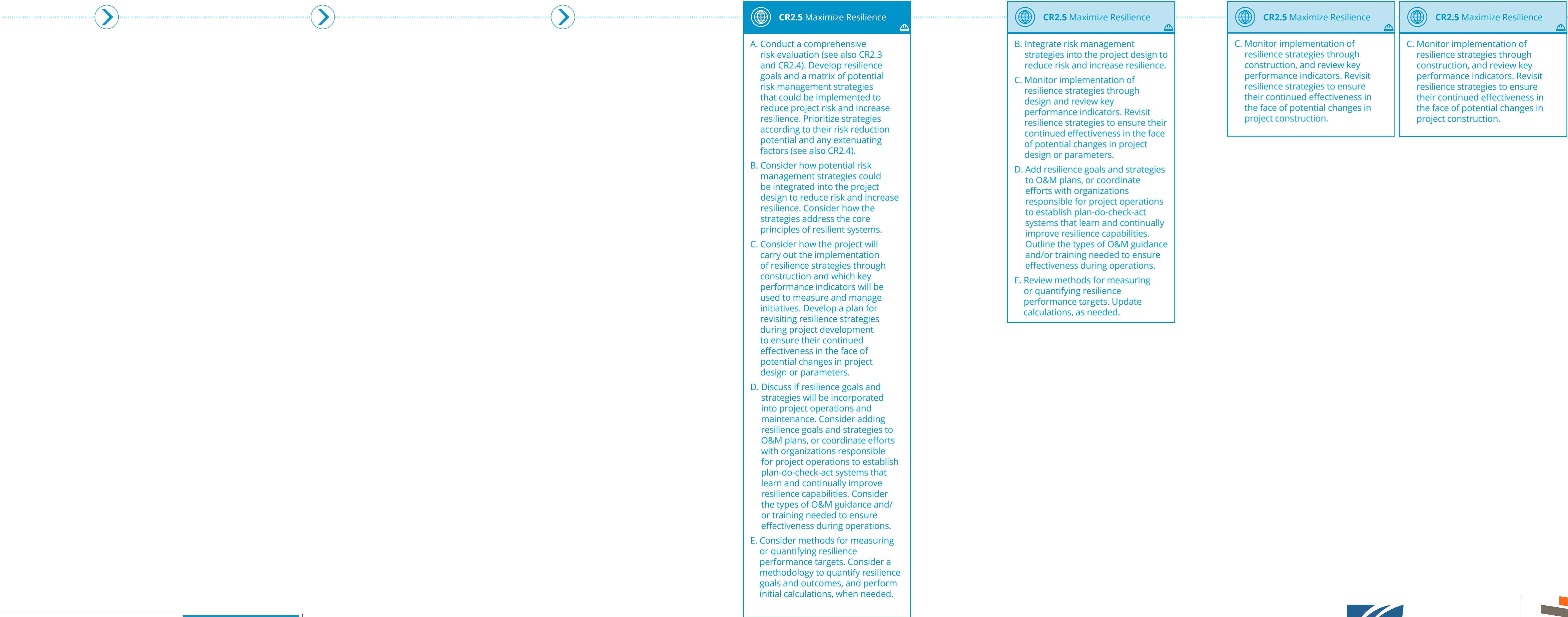
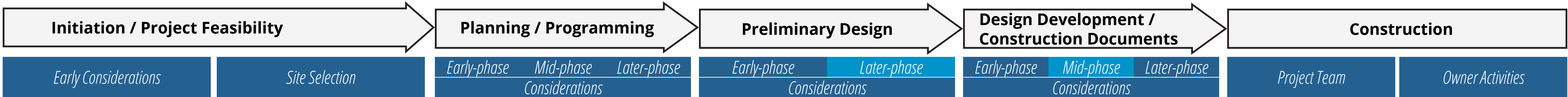
 **CR2.4** Establish Resilience Goals and Strategies  

B. Conduct a risk evaluation as outlined in the Envision Guidance Manual (see also CR2.3). Develop a matrix of potential risk management strategies that could be implemented to reduce project risk and increase resilience. Prioritize strategies according to their risk reduction potential and any extenuating factors.

D. Consider how the project connects, contributes to or supports the broader community resilience goals.

ENVISION CREDIT NAVIGATOR - CREDIT PROGRESSION

CLIMATE & RESILIENCE



ENVISION CREDIT NAVIGATOR - CREDIT PROGRESSION

Full Roadmap

Initiation / Project Feasibility

Planning / Programming

Preliminary Design

Design Development / Construction Documents

Construction

Environmental

Stakeholder Engagement

Quality of Life

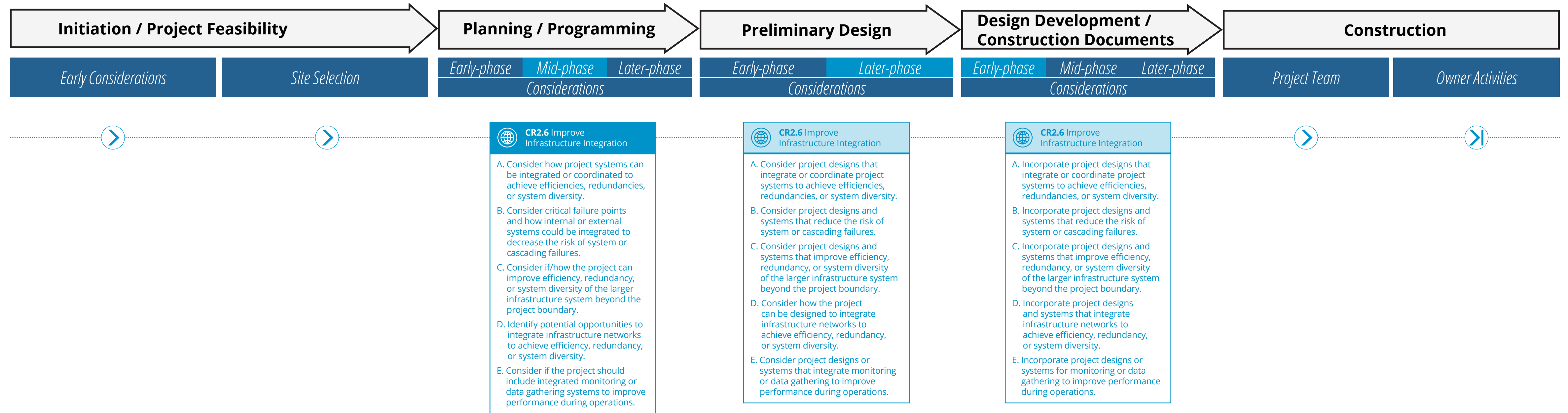
Leadership

Resource Allocation

Natural World

Climate & Resilience

CLIMATE & RESILIENCE



Credit has a *stakeholder engagement* component.



Credit has a *construction-related* component.

First instance of credit with dark background

Subsequent instances of credit with light background



Information related to the content of the credit may be included in an *environmental assessment* or similar document.



The Institute for Sustainable Infrastructure is an education and research nonprofit (a 501c3) based in Washington DC. It was established in 2010 by the American Public Works Association (APWA), the American Society of Civil Engineers (ASCE), and the American Council of Engineering Companies (ACEC). Responding to the need for a comprehensive sustainability framework and rating system suitable for use in civil infrastructure development, ISI collaborated with the then Zofnass Program for Sustainable Infrastructure at the Harvard University Graduate School of Design to develop Envision.

Envision is a holistic sustainability framework and rating system that guides and assesses the sustainability and resilience of all types of infrastructure. It is a comprehensive tool created to assist agencies, municipalities, consultants, contractors, and operators, in planning, designing, and delivering more sustainable infrastructure projects. The Envision framework is a decision-making tool that allows project teams to evaluate projects across a broad range of sustainability indicators, or “credits,” that address environmental, social, and economic dimensions of sustainability to encourage systemic change. At its core, Envision is about supporting higher performance through better choices in infrastructure development.

For more information, visit sustainableinfrastructure.org/