

Metroville Urban Rail Expansion Project-KPI Development Template

Technical Feasibility KPIs.

KPI 1:

KPI Name: Monthly Track Installation Progress

Definition (What it measures): This KPI measures the amount of track installed each month against the planned schedule, expressed as a percentage.

Measurement Method (How data will be gathered and calculated): Data on installed track length will be collected from construction reports, divided by the planned track length for the same period, and then multiplied by 100 to get a percentage.

Rationale (Why this KPI is important): Monitoring installation progress ensures the project remains on schedule and identifies delays early.

KPI 2:

KPI Name: Electrification Infrastructure Completion Rate

Definition (What it measures): Tracks the completion of essential electrification infrastructure components, like substations, against project milestones.

Measurement Method (How data will be gathered and calculated): Compare the number of completed electrification components to the total planned amount, presenting it as a completion percentage.

Rationale (Why this KPI is important): Ensures timely progress on electrification, critical for the rail system's operational efficiency and sustainability.

Environmental Sustainability KPIs

KPI 1:

KPI Name: Carbon Emissions Reduction

Definition (What it measures): Quantifies the reduction in carbon emissions due to fewer cars on the road attributed to increased rail usage.

Measurement Method (How data will be gathered and calculated): Estimate the reduction in vehicle miles traveled (VMT) using ridership data, then calculate the equivalent reduction in carbon emissions using standard emission factors.

Rationale (Why this KPI is important): Highlights the environmental benefits of the project, supporting Metroville's sustainability goals.

KPI 2:

KPI Name: Green Space Around Stations

Definition (What it measures): Measures the square meters of new or improved green spaces around rail stations.

Measurement Method (How data will be gathered and calculated): Sum the area of all green spaces created or enhanced as part of the station designs.

Rationale (Why this KPI is important): Enhances community livability and biodiversity, aligning with environmental and social objectives.

Community Acceptance KPIs

KPI 1:

KPI Name: Community Engagement Index

Definition (What it measures): Evaluates the level of community involvement in the planning process through feedback and participation metrics.

Measurement Method (How data will be gathered and calculated): Track the number of public submissions, attendance at community meetings, and engagement on digital platforms, creating an index based on these inputs.

Rationale (Why this KPI is important): Ensures the project aligns with community needs and preferences, fostering public support.

KPI 2:

KPI Name: Improved Transit Connectivity

Definition (What it measures): Assesses the increase in multimodal transit connections made possible by the new rail lines.

Measurement Method (How data will be gathered and calculated): Count the number of new connections established between the rail system and other modes of transportation post-expansion.

Rationale (Why this KPI is important): Reflects the project's success in enhancing Metroville's overall transit ecosystem and accessibility.