

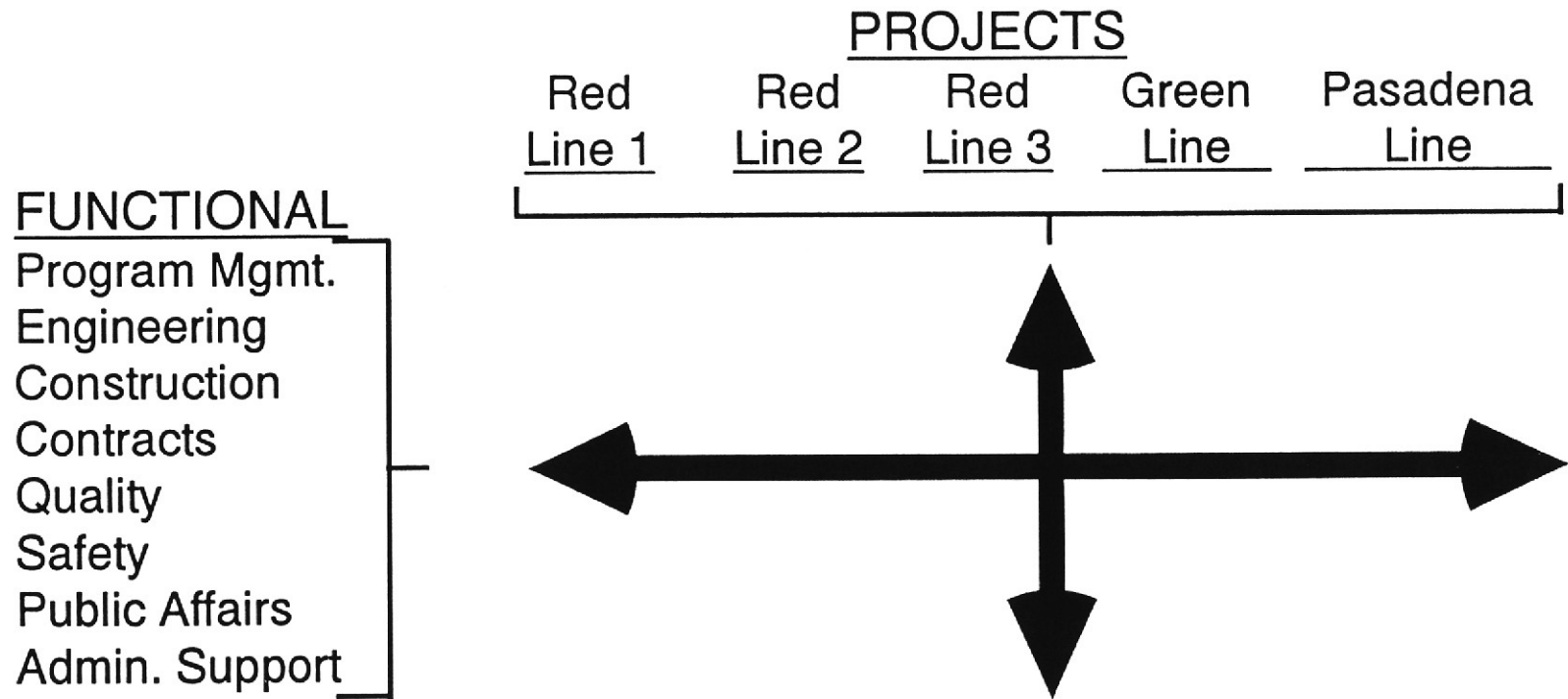


**Partnership for Excellence
in Rail Construction**

1993

M E T R O

A PROJECT FOCUSED MATRIX ORGANIZATION



TEAMETRO IS THE PARTNERSHIP FOR
EXCELLENCE IN RAIL CONSTRUCTION (PERC)



Charter Members

- Rail Construction Corporation (RCC)
- Engineering Management Consultant (EMC)
- Project Management Oversight Consultants (PMOC)
- Construction Management Consultants (CM)
- Other Supporting Agencies

Associate Members

- Contractors
- Subcontractors

**PARTNERSHIP FOR EXCELLENCE
IN RAIL CONSTRUCTION**

TEA  ETRO

**Partnering
+ TQM**

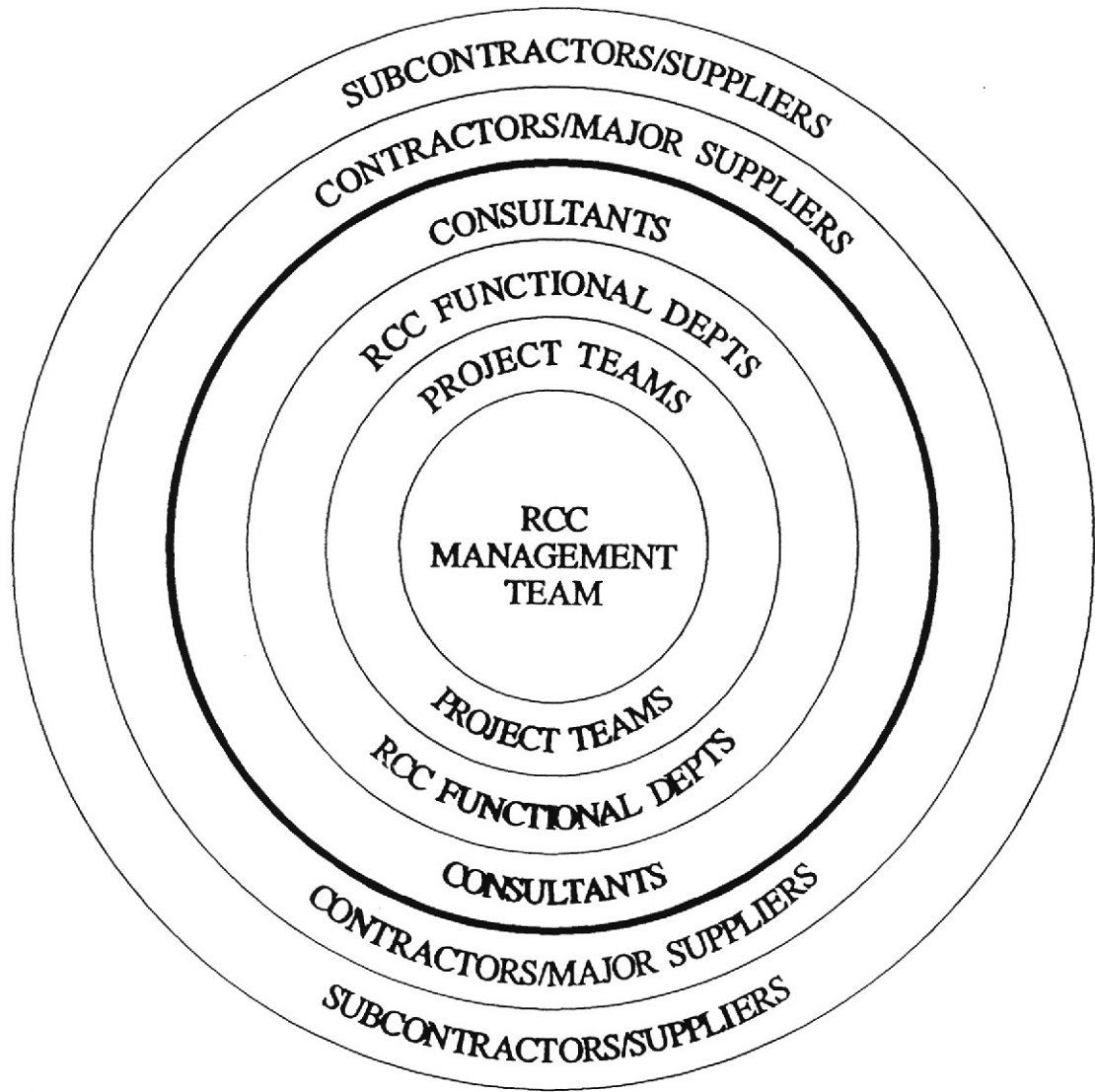
PERC

**PARTNERSHIP FOR EXCELLENCE
IN RAIL CONSTRUCTION (PERC)**

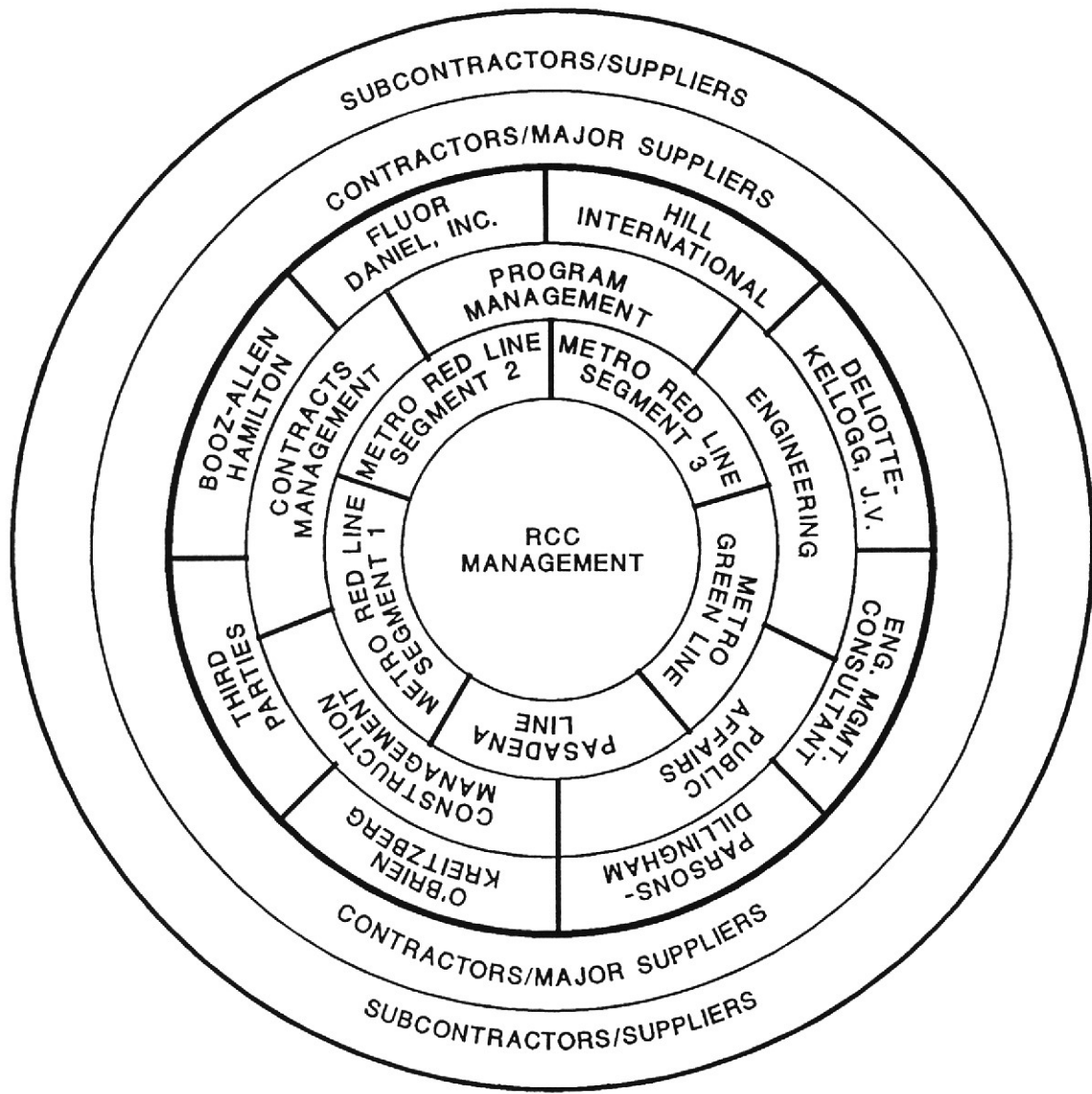


Purpose is to foster the concepts of total quality and partnering thereby creating a culture of:

- Win-win attitudes
- Teamwork
- Continuous Performance Improvement
- Recognition and celebration



PERC - The Growing Circle
of Influence for
Continuous Improvement



PERC - The Growing Circle
of Influence for
Continuous Improvement

THE PAYOFF

- Nearly everything we do can be defined as a process.
- Processes can be described by flow diagrams.
- Once understood, processes can be continuously improved.
- Those most involved in the process are best qualified to improve the process.
- Improvements should be measured.
- Results should be recognized and rewarded.

**ELEMENTS ESSENTIAL TO THE SUCCESS
OF TOTAL QUALITY AND PARTNERING**

TEAMETRO

- Leadership
- Alignment
- Focus
- Innovation
- Initiative
- Recognition
- Measurement

THE LEADERSHIP ROLE

TEAM METRO

1. Commit to a continuing, long-term initiative.
2. Communicate and demonstrate the commitment.
3. Encourage participation in work process improvement activities.
4. Encourage innovation and initiative.
5. Demonstrate and encourage team spirit and a win-win attitude.
6. Recognize and reward fairly and often.
7. Celebrate successes.

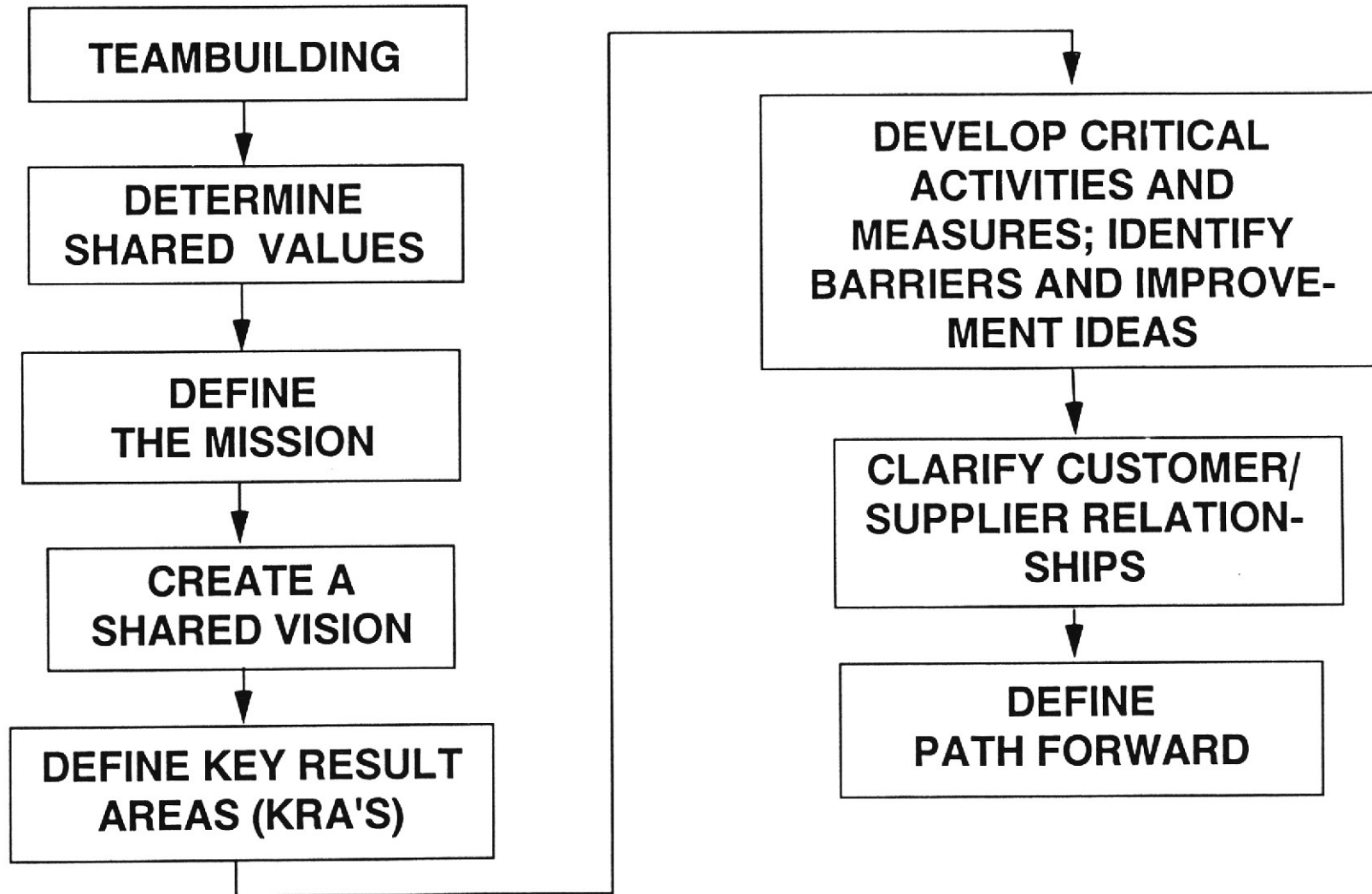
ALIGNMENT



Where the initiative begins

- Step 1** RCC Senior Management Alignment
- Step 2** RCC Project Teams' Alignments
- Step 3** RCC Functional Departments' Alignments
- Step 4** Alignment of TEAMETRO Entities,
Contract Execution Teams, and Other
Groups Sharing Common Objectives

THE ALIGNMENT WORKSHOP



What are Shared Values?

- They are the ethics and principles, both personal and professional, that are shared by team members.
- Values are the basis for how the team reacts to issues and decisions.
- Values often become the team's philosophy statement.

DEVELOPING THE MISSION STATEMENT TEAM **M**ETRO

What is a Mission Statement?

- It is a brief statement of the organization's expected results and its reason for existence.
- It is requirement driven.
- It is customer focused.
- It is long-term oriented.
- It is the framework for all activities.
- It reduces aimless behavior.

DEVELOPING THE MISSION STATEMENT TEAM **M**ETRO

Why do we want a Mission Statement?

- It supports the overall purpose of the team - why we are in the business.
- It provides a common direction for the team.
- It provides a basis for evaluating long and short-term decisions.
- It links the direction of the team with each of its interrelated teams and the larger organization.
- It provides direction for setting strategic, operational and improvement goals.

DEVELOPING THE VISION STATEMENT TEAM METRO

What is a Vision Statement?

- A vision is the positive image of the team's future. It has the power to shape the future and determine the team's destiny.
- The vision statement reflects what the team would like to accomplish or become over and above achieving the mission.
- The key ingredients of a vision statement are that it is:
 - Shared and supported by all team members.
 - Positive and inspiring.

KEY RESULT AREAS AND CRITICAL ACTIVITIES



What are Key Result Areas and Critical Activities?

- **Key Result Areas** are the elements that determine the team's success in making the mission and vision a reality. They can make or break the success of the team. Each should be devoted to one issue. They are measurable.
- **Critical Activities** are the actions/work processes necessary to succeed in result areas. They are specific and action oriented.

KEY RESULT AREAS AND CRITICAL ACTIVITIES



Why do we want to identify Key Result Areas and Critical Activities?

- Key Result Areas and Critical Activities are the first steps in defining opportunities for improvement. They help us make our Mission and Vision a reality by focusing us on specific actions.
- After we have defined the Key Result Areas and Critical Activities, we determine the relative priorities of our actions based on potential gains and risks.

PHILOSOPHY



"We will achieve our mission and realize our vision by embracing the Guiding Principles of the LACTC and through unyielding commitments to:

- *Safety and Security*
- *Total Quality*
- *Fairness*
- *Individual Initiative*
- *Fiscal Responsibility*
- *Teamwork*
- *Honesty*
- *Timeliness*
- *Creativity*
- *Clear and Open Public Dialogue*
- *The Environment and Communities Served."*

THE MISSION STATEMENT

TEA **M**ETRO

*"To build a world-class Metro Rail System for the
Los Angeles Community."*

THE VISION STATEMENT

TEA **M**ETRO

"To be the model of excellence in public works design and construction through our TEAMETRO partnership."

WORK PROCESS IMPROVEMENT (WPI) TEAM METRO

Work Process Improvement at the Rail Construction Corporation

- PAST: Individuals and managers (mostly managers) used variety of strategies to make improvements in work process. Some measurements were made but not every process.
- PRESENT: Structured work process performance by all employees, measurement/improvement just beginning to take root at RCC.
- FUTURE: Widespread and in-depth performance measuring and routine use of structured work process improvement teams as well as individuals.

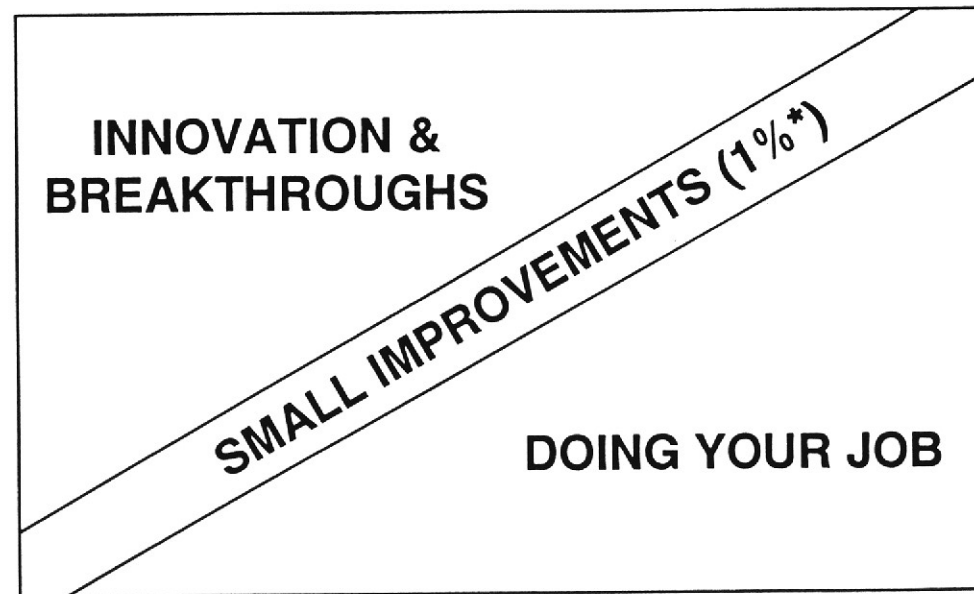
WORK PROCESS IMPROVEMENT



Individual Initiatives - Improve those processes totally within an individual's span of influence and control.

Team Initiatives - Improve those processes that involve and/or impact multiple functional areas and ensuring that each area is involved in developing, implementing and supporting all improvements.

- Look for small improvements in everything you do, day-after-day.
- Don't wait for the big breakthroughs.



***Opportunities for Improvement**

WORK PROCESS IMPROVEMENT (WPI) TEAM METRO

How to get Started With Work Process Improvement

1. Thoroughly understand the objective

- What can be improved?
- Who is involved?
- How can it be improved?
- When can it be improved?

2. Thoroughly analyze the process

- Get help from PERC coordinator.
- Use tools for analysis.
- Identify barriers.
- Identify positive forces.
- Seek out benchmarks/comparisons.
- Outline plan for improvement.

WORK PROCESS IMPROVEMENT (WPI) TEAM METRO

How to get Started with Work Process Improvement

3. Review plan with supervisor

- Agree on opportunity for improvement.
- Review possible solutions.
- Agree with on approach to be taken.
- Write down goals, objectives, schedules, etc.
- Have supervisor co-sign the plan.

4. Review and give copy of plan to PERC Coordinator

- PERC Coordinator shares plan with steering committee

WORK PROCESS IMPROVEMENT (WPI) TEAM METRO

How to get Started with Work Process Improvement

5. Identify others involved in the process and who should participate
 - Solicit an executive sponsor.
 - Contact affected supervisors/managers to support the plan.
 - Identify the sponsoring PERC Coordinator.

6. Work with sponsoring PERC Coordinator to set up WPI team meetings, training, etc.

7. Keep the PERC Coordinator and Supervisors informed of progress on continuous basis

WORK PROCESS IMPROVEMENT (WPI) TEAM METRO

How to get Started with Work Process Improvement

8. Present recommended improvements to appropriate supervision and/or management
 - Get help from PERC Coordinator(s).
 - Present findings and recommendations.
 - Present path forward - who does what, when.
 - Agree on methods for measuring improvements.

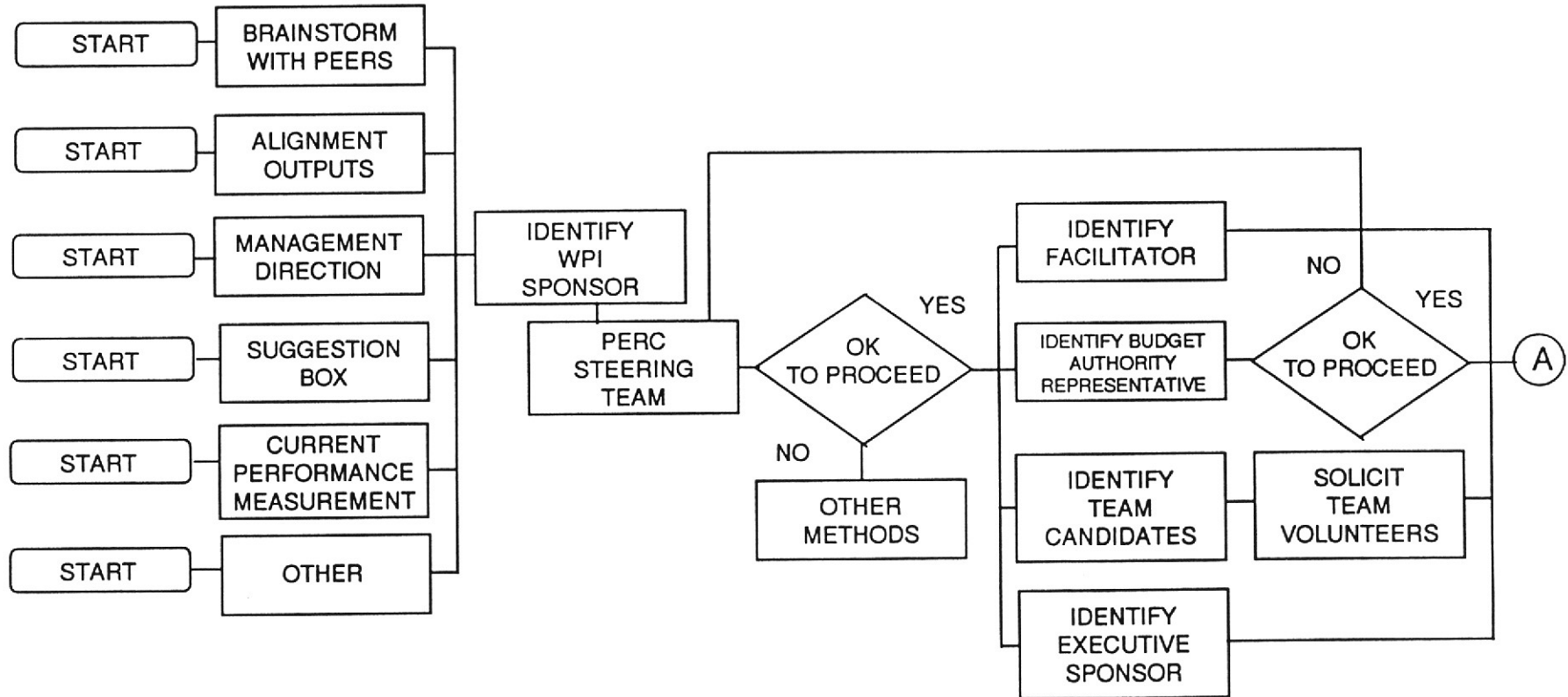
9. Monitor improvement(s) and report results to PERC Coordinator, Supervisors and/or Management on regular basis

WORK PROCESS IMPROVEMENT (WPI) TEAM METRO

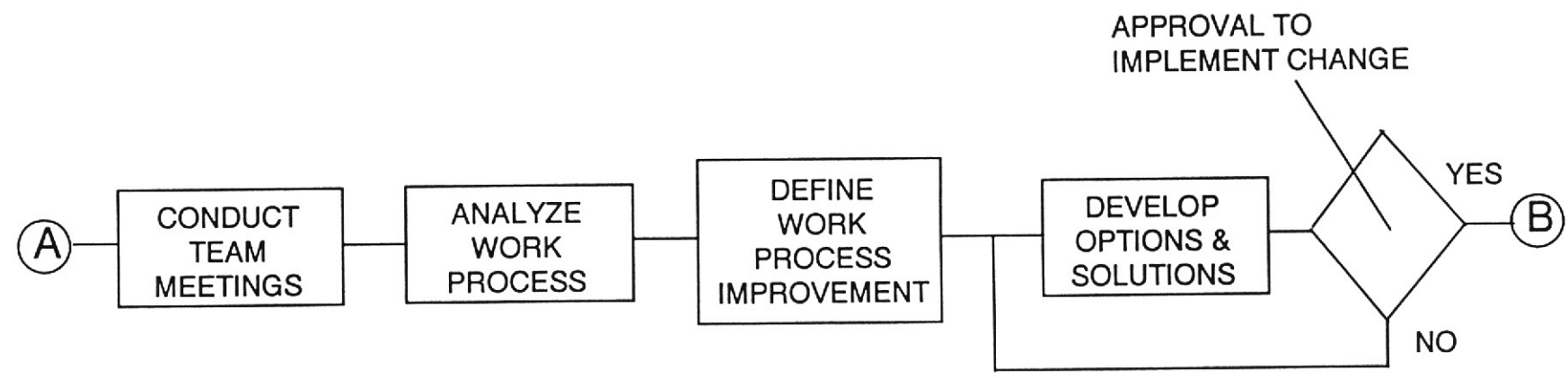
Tools Typically used in Work Process Improvement

- Flow Chart.
- Check Sheet.
- Brainstorming.
- Nominal Group Technique.
- Pareto Chart.
- Cause and Effect (Fishbone Diagrams).
- Histogram.
- Control Chart.
- Force Field Analysis.

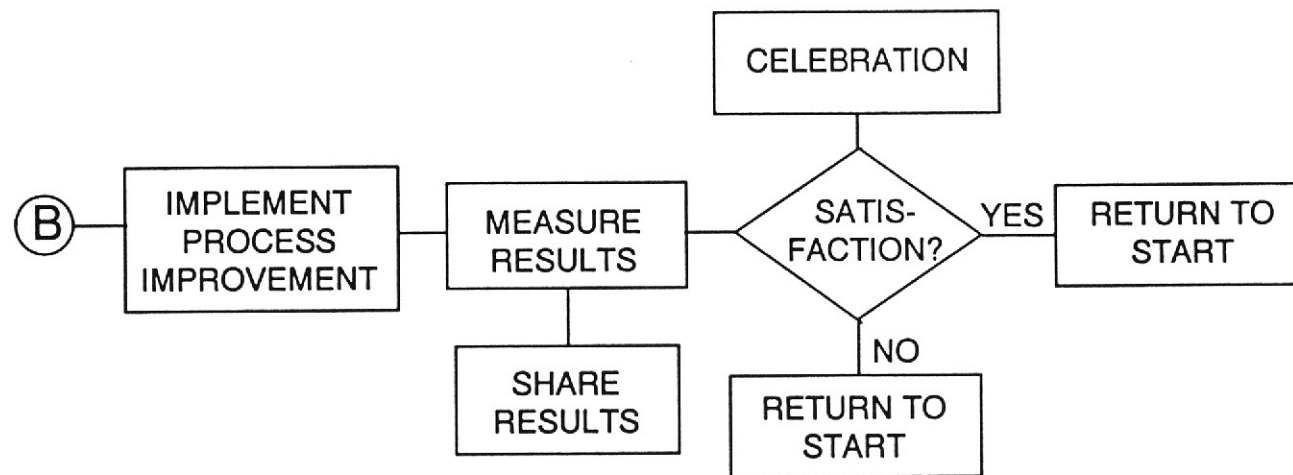
WORK PROCESS IMPROVEMENT (WPI) FLOW DIAGRAM



WORK PROCESS IMPROVEMENT (WPI) FLOW DIAGRAM



WORK PROCESS IMPROVEMENT (WPI) FLOW DIAGRAM



PROMOTING PERC AND THE WPI PROCESS



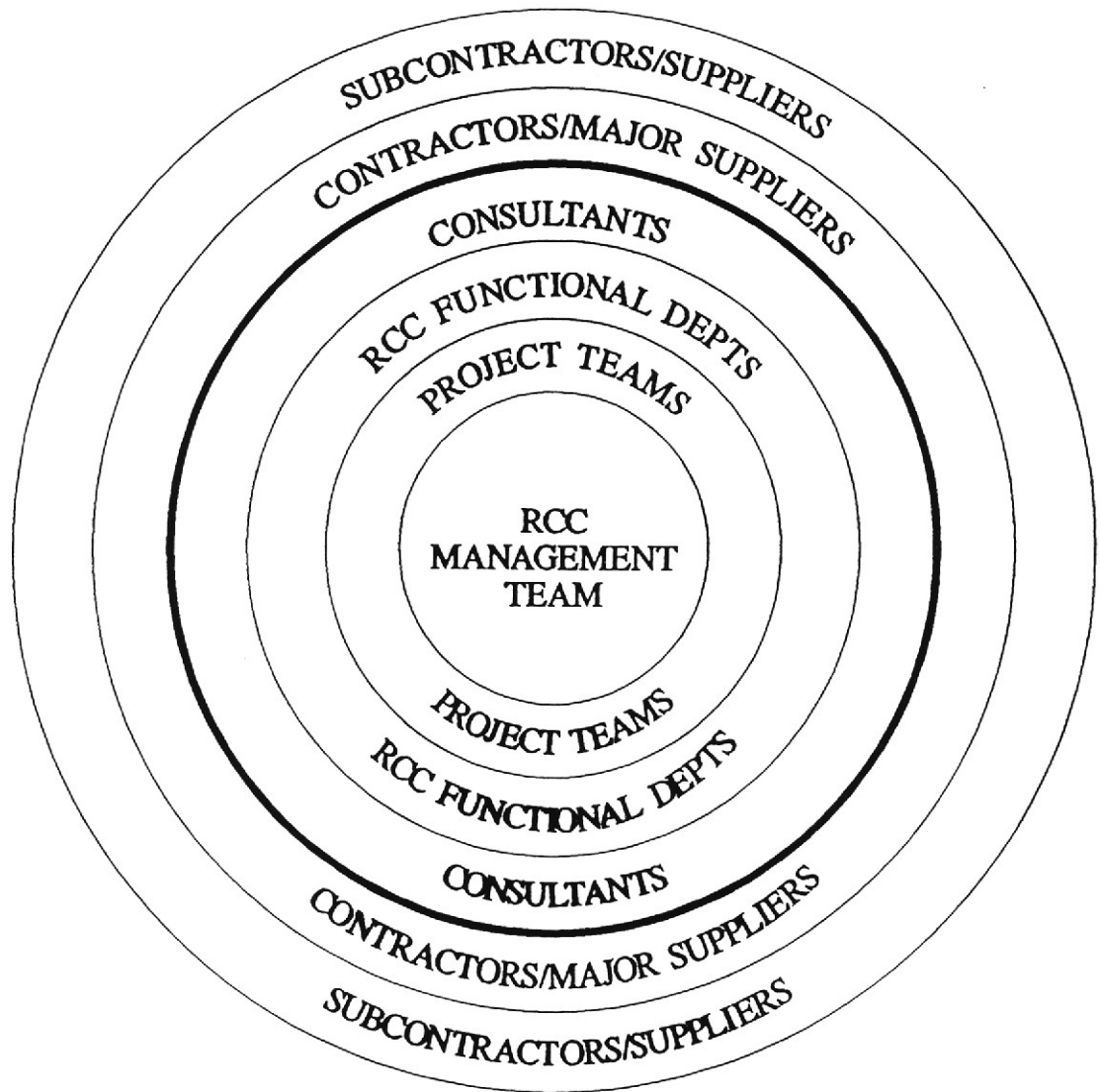
It All Comes Down to Measurement

- Once a WPI is implemented - the team tracks the results.
- The improvements will be charted and prominently displayed.
- All charts will be updated monthly.
- Displays will include key indicators of each project.
- Senior Management support and input into measurements criteria and results is a key prerequisite to success of the Partnership for Excellence in Rail Construction.

PERC STRATEGIES



<u>CONTINUOUS PERFORMANCE IMPROVEMENT</u>	<u>TOTAL EMPLOYEE INVOLVEMENT</u>	<u>PROMOTE PARTNERING CONCEPTS</u>
<ul style="list-style-type: none"> ● PERC coordinators & management constantly promote & encourage participation in PERC 	<ul style="list-style-type: none"> ● Keep employees informed of strategic direction through the alignment process, newsletters, etc. 	<ul style="list-style-type: none"> ● Project alignments upfront to define partnering agreements
<ul style="list-style-type: none"> ● PERC concepts become part of RCC culture 	<ul style="list-style-type: none"> ● Promote and recognize employee participation in work process improvement activities 	<ul style="list-style-type: none"> ● Joint resolution of conflicts at lowest possible level to avoid potential claims
<ul style="list-style-type: none"> ● Include consultant and other personnel when appropriate 	<ul style="list-style-type: none"> ● Provide training and other resources as needed 	<ul style="list-style-type: none"> ● Win-win relations with consultants and sponsors
<ul style="list-style-type: none"> ● Constantly improve, measure and adjust work processes 	<ul style="list-style-type: none"> ● Ensure the sharing of knowledge gained with all employees 	<ul style="list-style-type: none"> ● All parties become accountable and accept responsibility
<ul style="list-style-type: none"> ● PERC Coordinators/ Steering Team are focal point & clearing house for WPI activities 		



PERC - The Growing Circle
of Influence for
Continuous Improvement

Partnering/Alignment Process Objectives

- A single, effective project management team.
- Improved productivity and quality within a single culture.
- Common goals and objectives leading to a win-win relationship.
- Principle-based leadership and joint relationships based on honor and shared values.
- A strategic focus on a process that is everyone's responsibility.
- Acceptance by all parties of the inherent shared risk.

Ranking of elements and principles critical to successful Partnering*

<u>RANK</u>	<u>PRINCIPLES</u>
1	Trust
2	Professionalism
3	Honesty
4	Safety
5	Quality
6	Continuous Improvement

*BASED ON A SURVEY OF A & E FIRMS, CM'S, E & C'S AND CONSTRUCTORS

Ranking of elements and principles critical to successful Partnering*

<u>RANK</u>	<u>CRITICAL ELEMENTS</u>
1	Management's Support
2	Alignment Workshop
3	Problem Solving Process
4	Develop Partnering Staff
5	Established Common Goals
6	Roles & Responsibilities Defined
7	Schedules for Partnering Events
8	Evaluation Instruments

*BASED ON A SURVEY OF A & E FIRMS, CM'S, E & C'S AND CONSTRUCTORS

PROMOTING PERC AND THE WPI PROCESS



Senior Management Can Support PERC By:

- Making PERC a primary topic at project/department staff meetings.
- Using the WPI to resolve issues originating at management levels.
- Empowering your employees to improve processes.
- Acting as executive sponsors for WPI's.
- Constantly promoting the PERC culture of total quality and partnering.

PROMOTING PERC AND THE WPI PROCESS



Why Management Should Invest Resources

- WPI actions will improve overall efficiency.
- More time will be available for doing it right the first time.
- Management will be able to allocate available resources.
- PERC concepts promote better planning, reduce rework and crisis management.