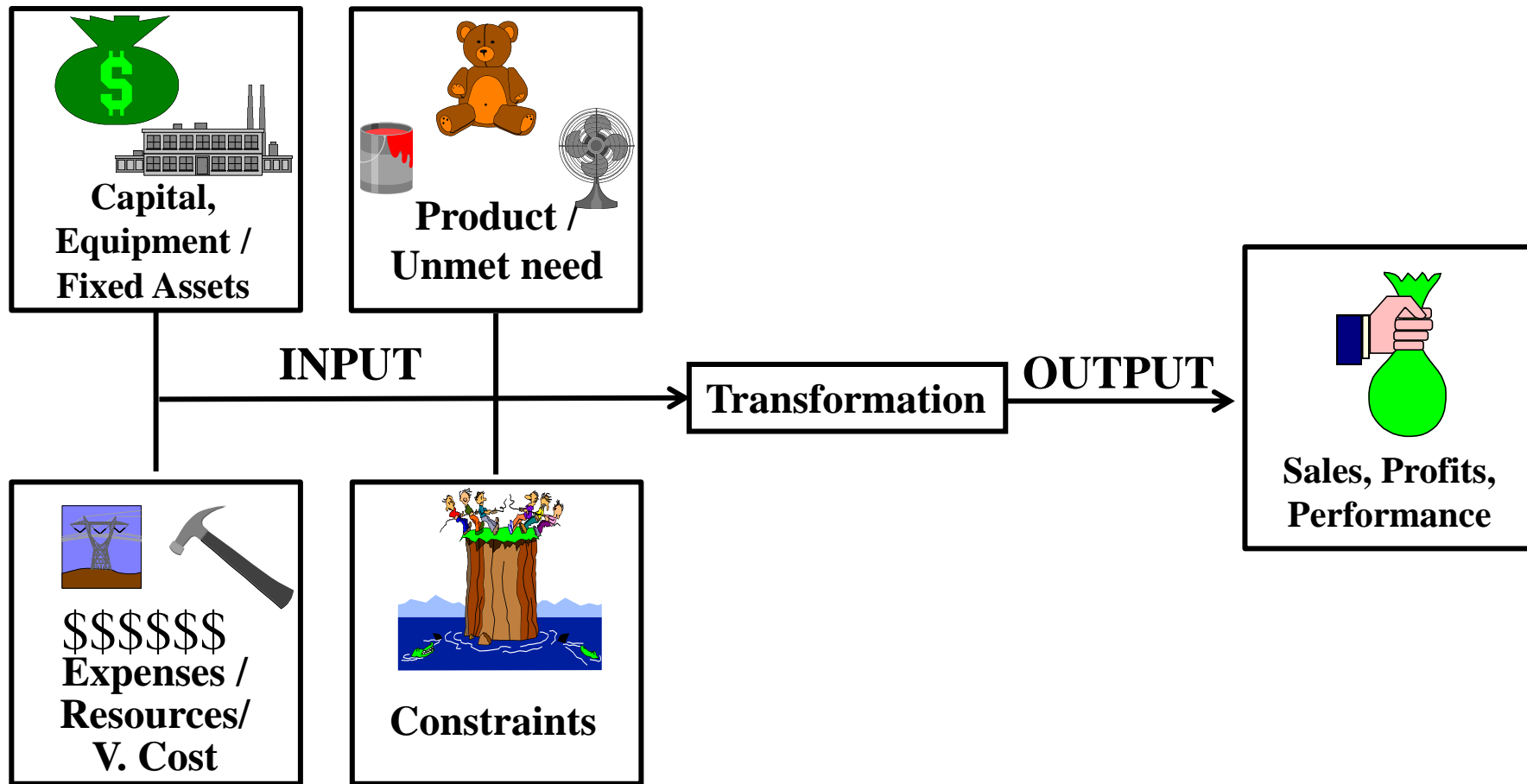
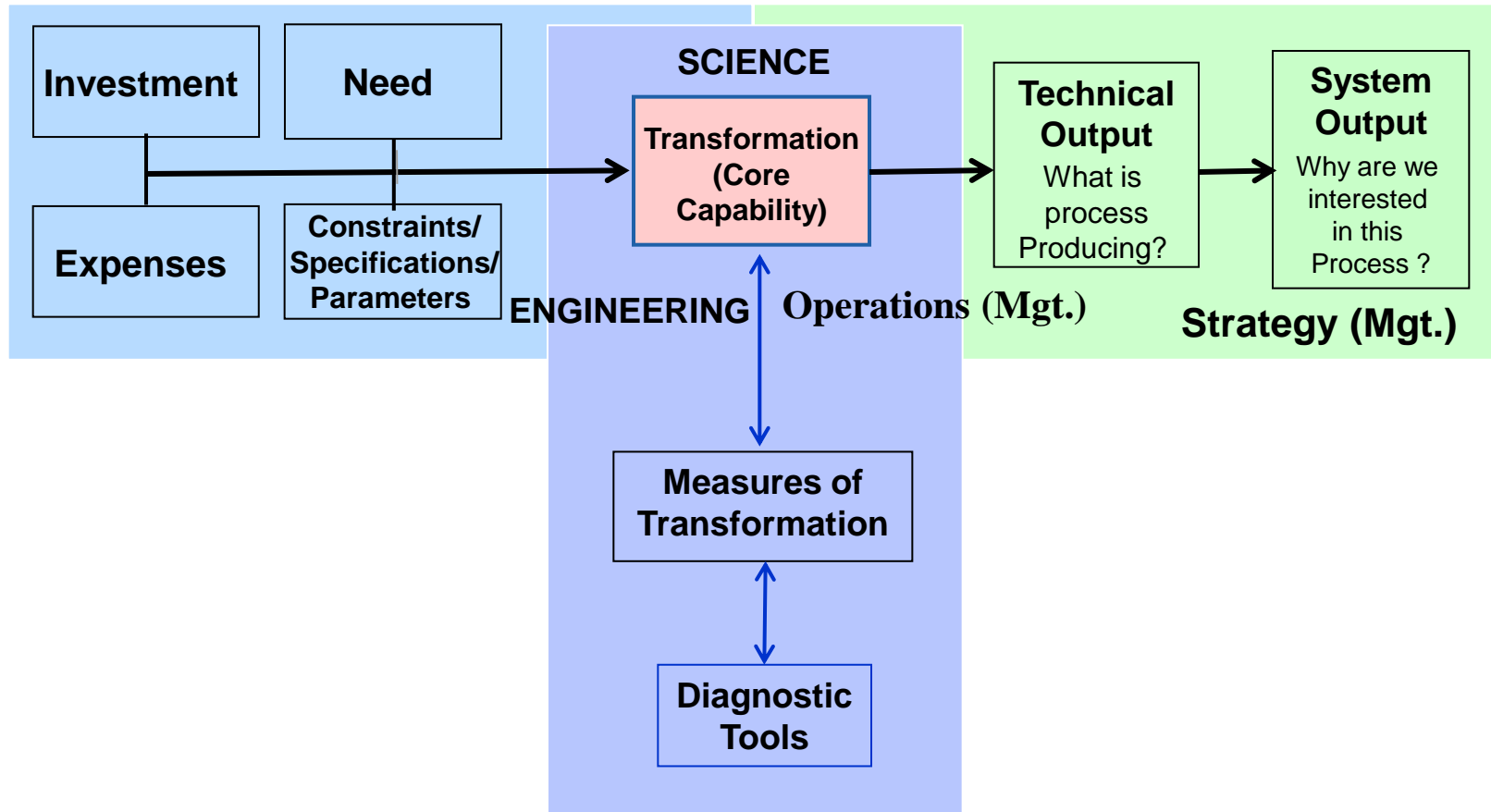


The System Approach: alignment of core capabilities at each level for all Professional Solutions.



The System Approach: The four input categories and their linkage to the transformation and the outputs.

Input → Transformation → Output



The System Approach for Industrial Processes

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**Management
(Strategy)**

6. Establish the System

Outputs: Why?

Identify the stake holders, their benefits and priorities.

**+
Management
(Operations)**

5. Document the new solution (How?) with Improvements in the Technical and System outputs

1. Document the process as “Input/Transformation/Output” System: What ?

**+
Engineering**

4. Implement the changes (How?) needed in all the four input groups simultaneously to influence the Transformation

2. Establish the Technical Outputs: What do we want from the process ?

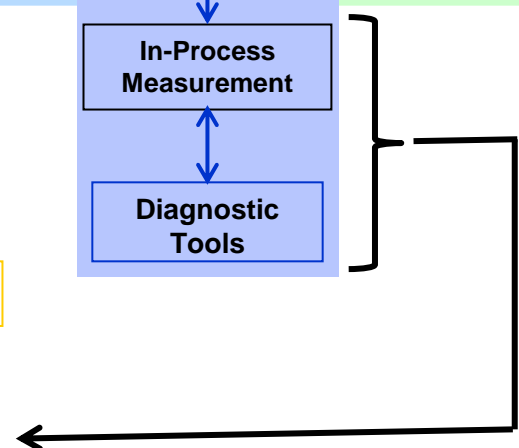
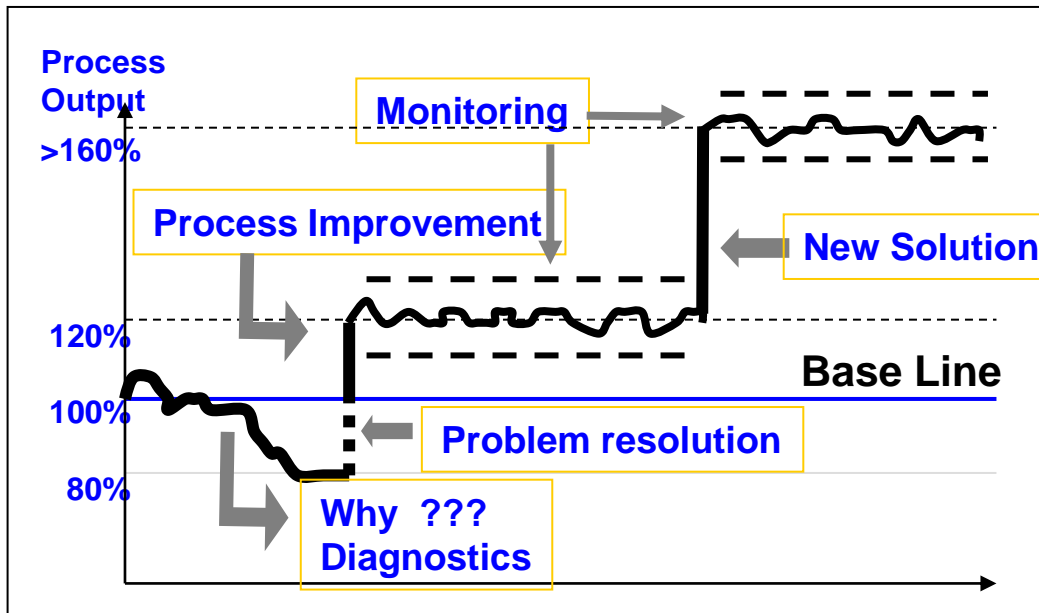
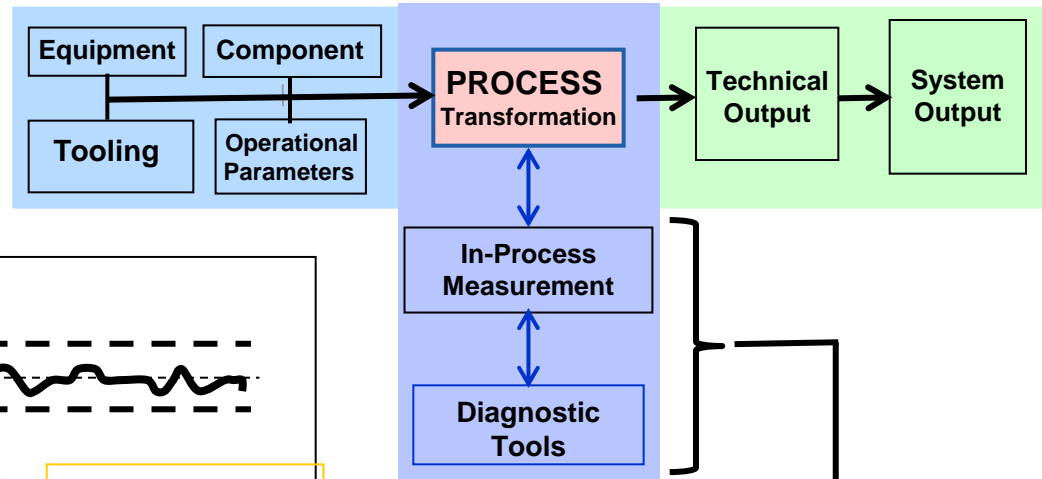
**+
Science**

3. Diagnose and interpret: Obtain the “Vital signs” ; what do they infer about the Transformation (Core capabilities): Why ?

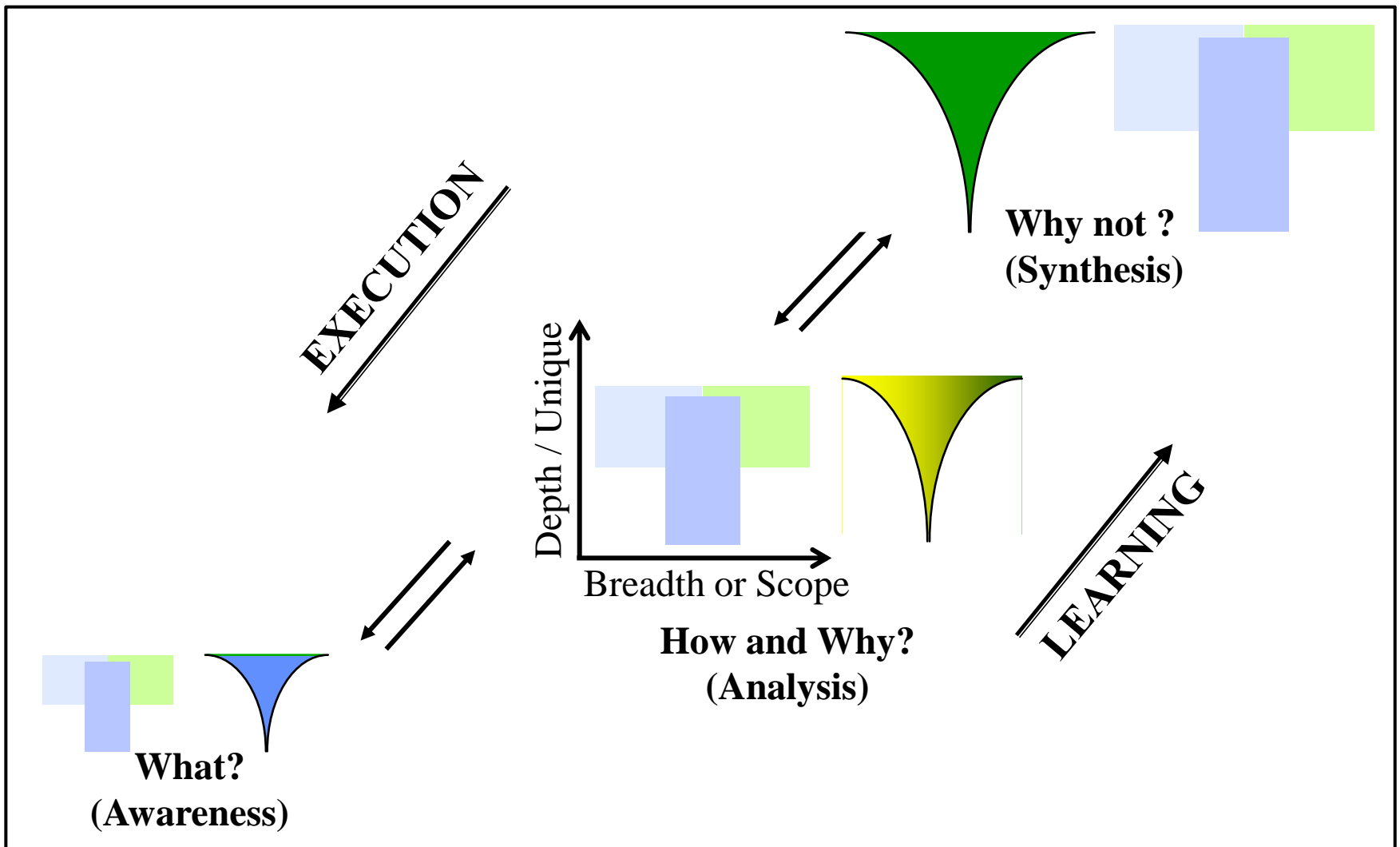
**The System Approach:
implementation methodology.**

Five steps in the scientific approach for problem solving:

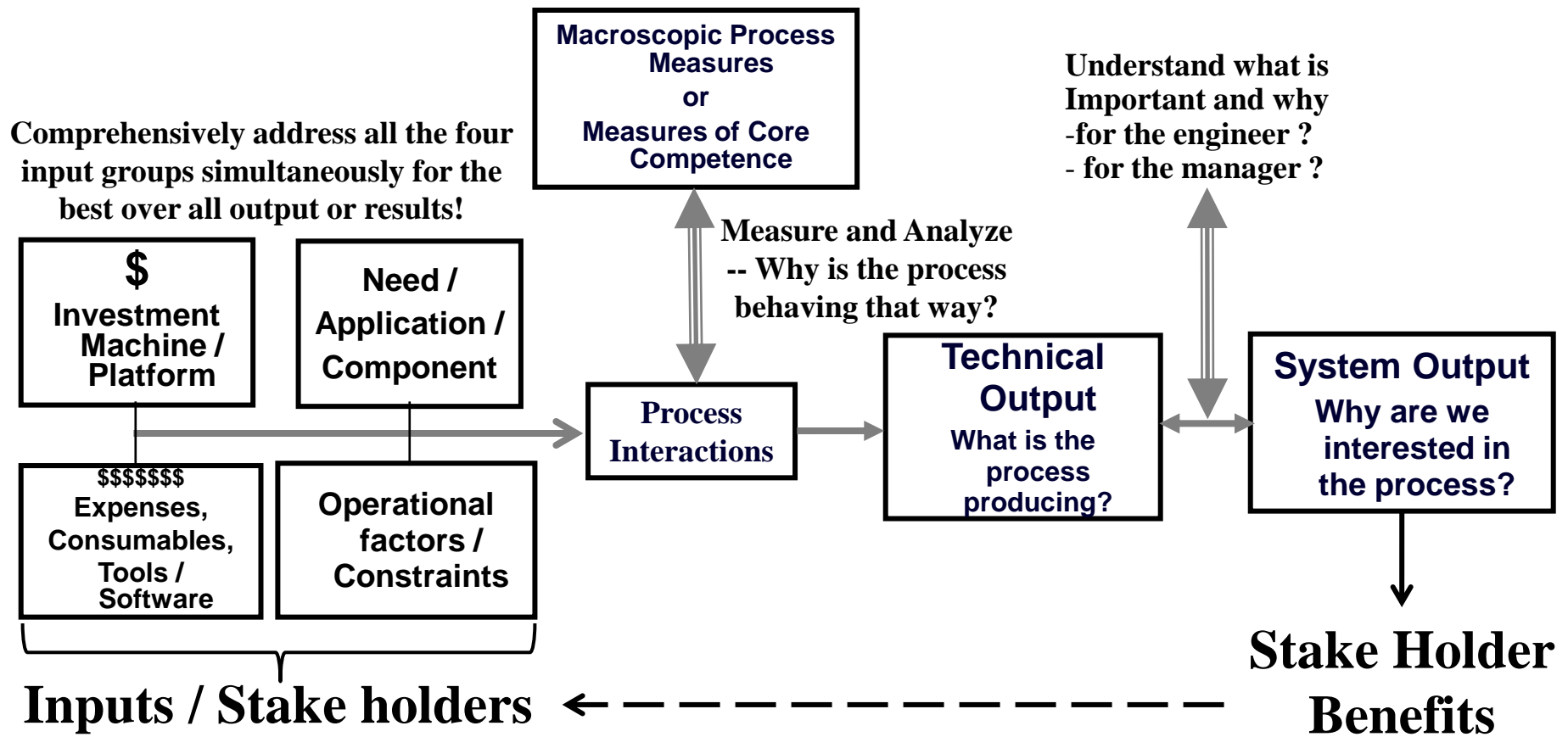
- **Diagnostics**
- **Problem Solving**
- **Process Improvement**
- **Process Maintenance**
- **New Solution or Step Change**



**The System Approach:
Scientific and Diagnostic Tools and their use.**



The System Approach: Three levels of System Skills.



The System Approach: A continuum between all Input Resources and their benefits (as stake holders).