



## ■ Critical Issues

### ■ Don't You Want to Solve the Following Problems?

- Follow-up by the development design division continues even after the business has been set up, preventing a shift of power to the next development work.
- Even after development has been completed, much time and energy have to be spent on specification changes requested by each customer.
- The specification has not been fixed, and confusion in the design process stays all the time.
- Many development projects are being conducted in parallel, and the development deadlines are getting later and later.
- The leadership of our project leaders is not apparent.
- Technology has become concentrated in certain people, so that it is not possible to flexibly allocate tasks according to the development characteristics and workloads.
- Time is being spent on existing products, so that it is not possible to shift to new technology and new product development.

## ■ JMAC Concept

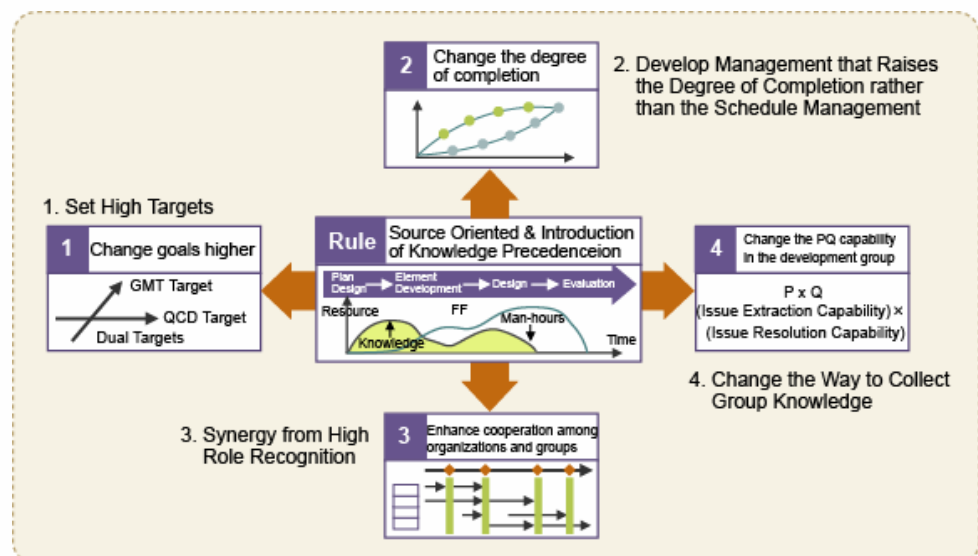
### ■ Aiming for Front Loading of Wisdom based on Dealing with Issues Beforehand and in a Structured Manner

- Feed Forward & Fact Finding/ Fix & Front Loading

### ■ Concentrating on Speeding-up the Issue-solving

- The development process is a continual and structural issue-solving process. In order to improve the development speed, the quickness of breaking through the technological obstacles and enhancement of the degree of completion are the two key points.

### ■ Four Innovation Viewpoints for Changing the Development Process



# FF (Feed Forward & Fact Finding/ Fix & Front Loading): Source Oriented Development Process Innovation

Speeding-up of issue-solving in the development process



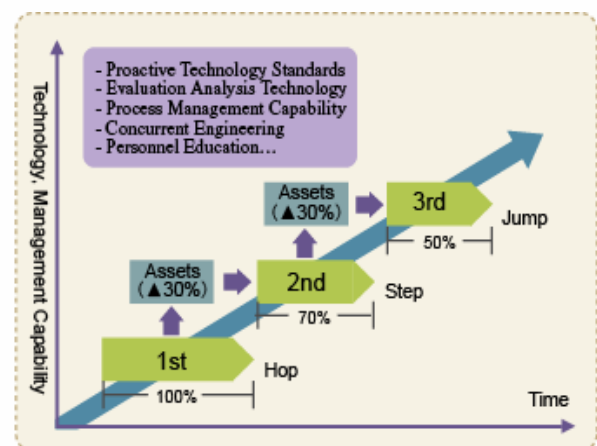
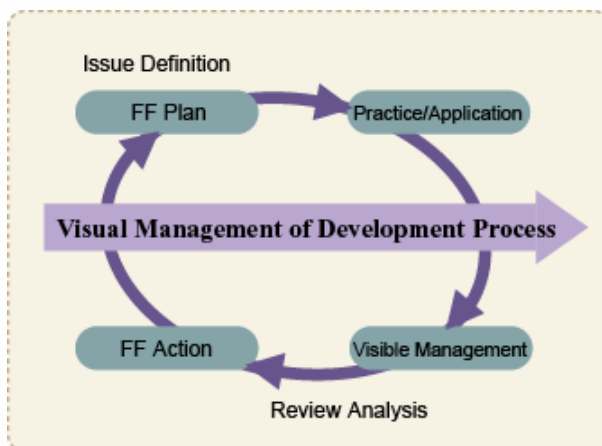
## JMAC Features

- **Develop innovation activities using a direct approach to actual projects**
- **By turning the FF cycle, change both the overall development process and the work process by individuals to the in-advance thinking style.**
- **Strengthen Development Infrastructure using Dual Targeting**
  - “Create” dual targets consciously
  - “Create” processes appropriate for the targets
  - “Create” a situation in which people devise their own work
  - “Create” assets through development activities
- **Cover Overall Development Management Process as the Innovation Scope**
  - Build engineering organization which has outstanding issue-grasping, resolving and cooperating capabilities.
  - Enhance the management abilities of the project leader
  - Improve the development mechanisms
  - Prepare the various conditions based on the development strategies

## How to Define Development Issues

FF process innovation activities try to understand the various issues to achieve the project targets in the initial stage of the development process.

(Issues relating to the specifications fix, technical issues for the design targets, design verification, organizational structure, decision-making management, department cooperation, etc.)



## Results

- **The expected results of the FF process innovation activities are as follows:**

1. Increasing development efficiency by “re-do” elimination
2. Development period shortening based on process design for speedy development
3. Accumulation of technologies (design technology, management technology, KAIZEN technology, etc.)