

# Initiatives by Japan Prestressed Concrete Contractors Association

مبادرات الاتحاد الياباني لمتعهدي الخرسانة المسبقة الإجهاد

## i-Bridge - Initiative for Improved Productivity

The aim is to improve the Japanese construction productivity in concrete works by 30%. Japan Prestressed Concrete Contractors Association (JPCCA) has started an initiative called i-Bridge to improve productivity on prestressed concrete bridge works. i-Bridge initiative focuses mainly on extending the use of precast concrete products (PCa) and Information & Communication Technology (ICT).

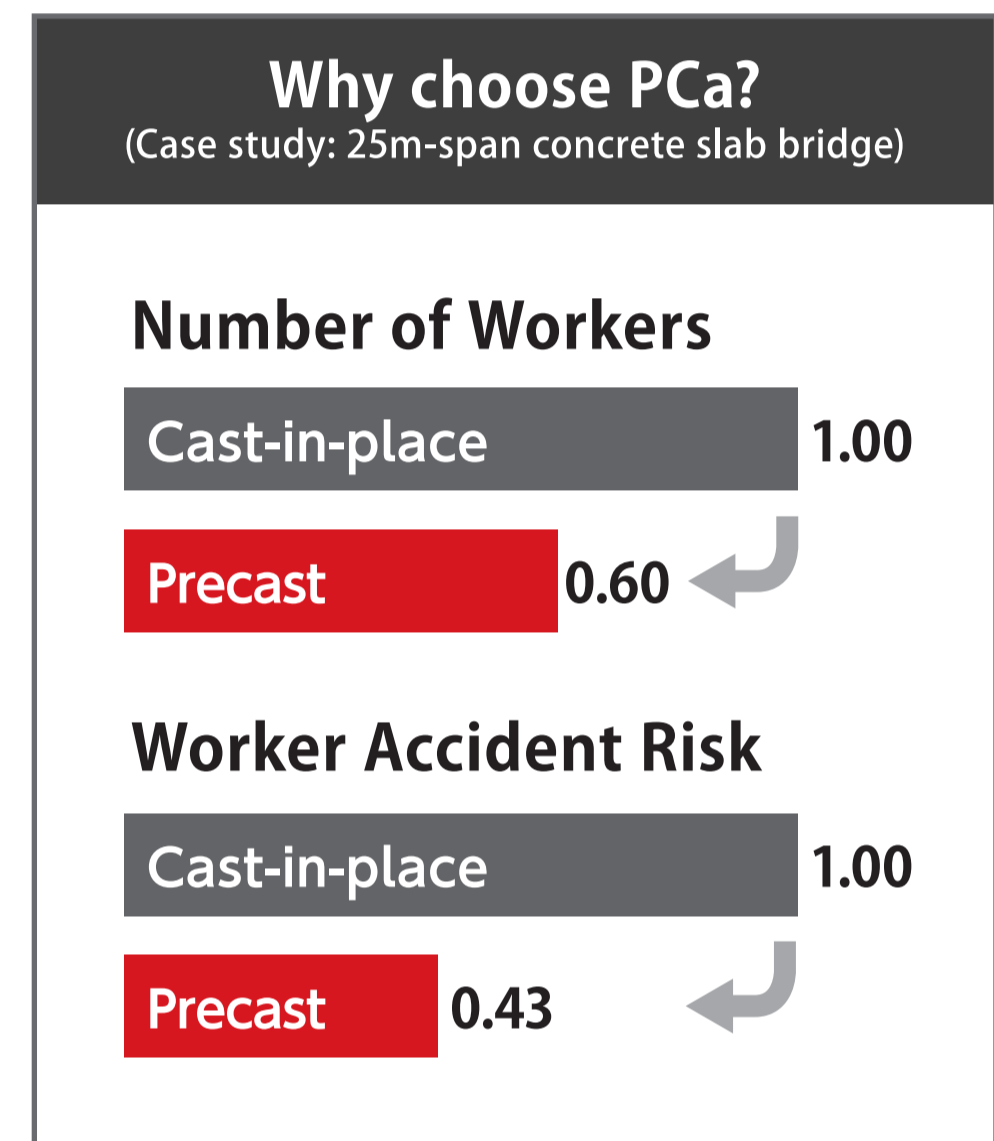
### 1. More PCa

JPCCA is actively pushing for shifting the construction of concrete bridge element from cast-in-place to factory. In addition, more PCa means improved construction safety.

#### Less cast-in-place concrete

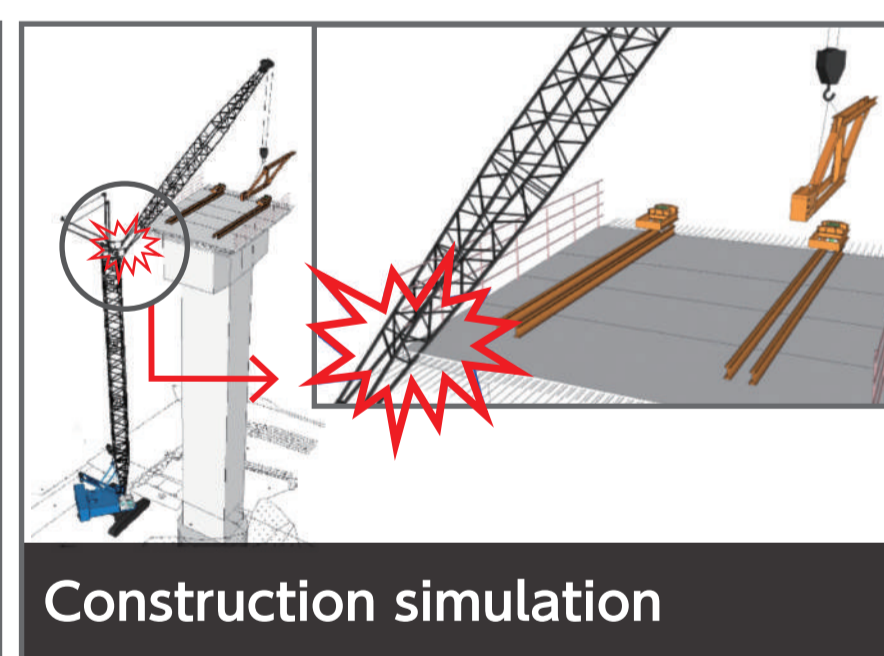
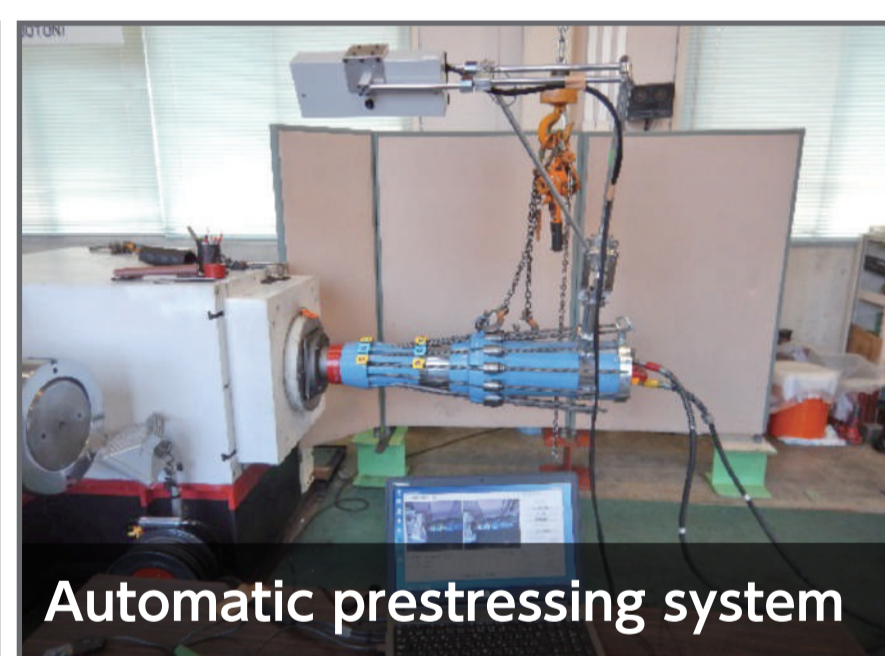
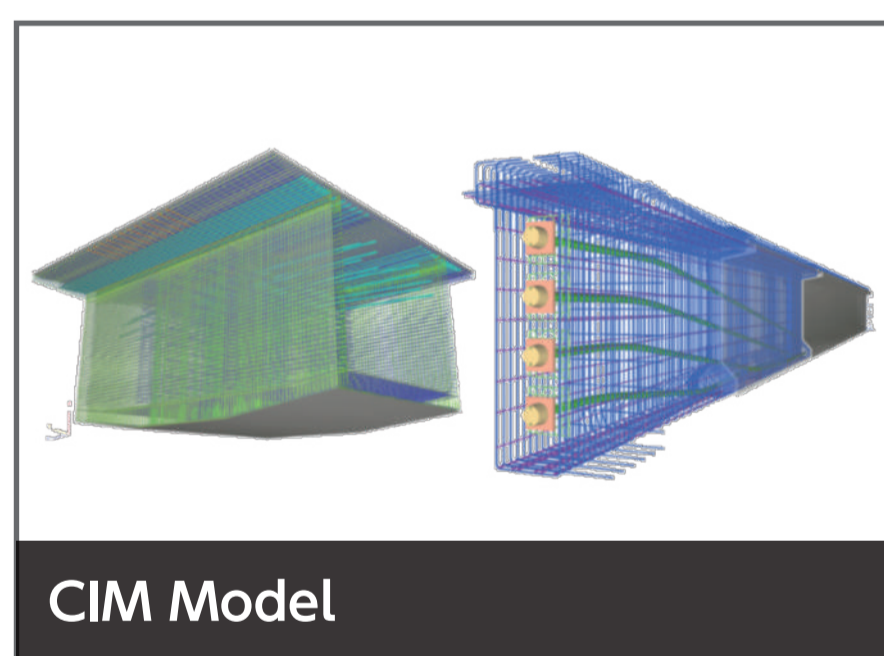


#### Development of PCa



### 2. Use of ICT

JPCCA is also advocating use of the latest ICT to save manpower needed in works such as surveying, design, construction management, inspection and maintenance management.



## Effective use of Industrial by-products

JPCCA is a promoter of initiatives to use industrial by-products such as blast furnace slag or fly ash to improve concrete durability and produce highly durable concrete structures. These initiatives include focusing on the reduction of environmental footprints such as CO<sub>2</sub> emissions.

