



# Operational Excellence Services

**Health · Safety · Environment  
(HSE)**

**Escape Simulation and Assessment**



## Contact Us

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## Access to Our Homepage

 <https://www.jgc.com/en/business/epc/operation-maintenance/service/>

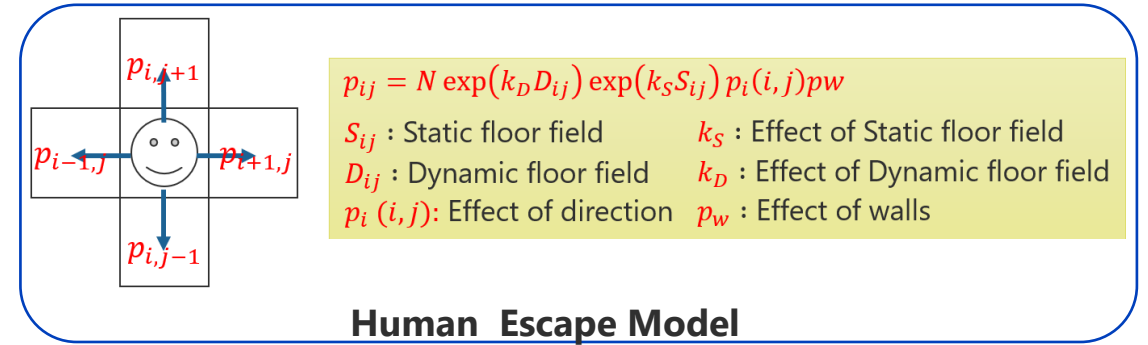
# Escape Simulation and Assessment

## Do you have any of these issues?

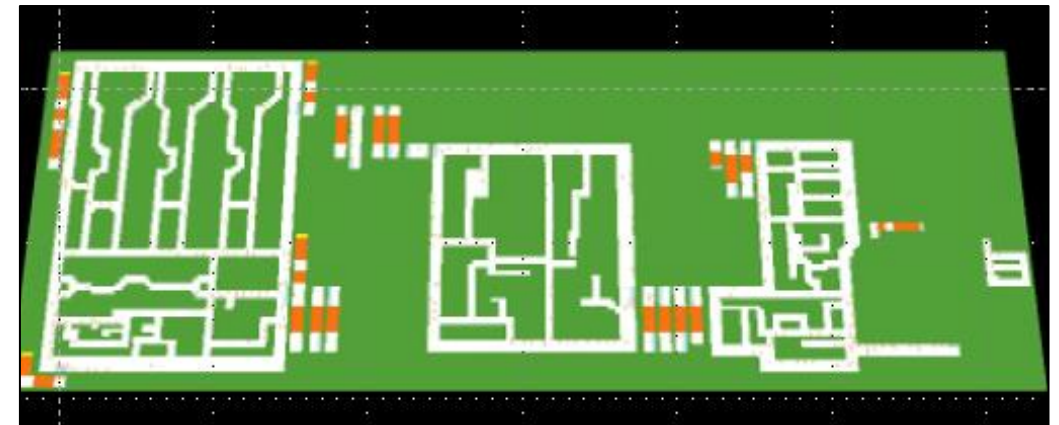
- ☹️ **Insufficient escape and evacuation plans**
- ☹️ **Maintenance plan without safety considerations**
- ☹️ **Many modifications in the facility**

## Escape Simulation and Assessment Solutions

- Evaluation of current escape route by specialized escape route simulation program.
- Identification of critical points (bottlenecks) in escape route plan
- Provide improvement plan of escape route
- Escape simulation in accident scenario
- Provide safe maintenance plan (location of maintenance, number of maintenance persons, barricade plan in maintenance period)



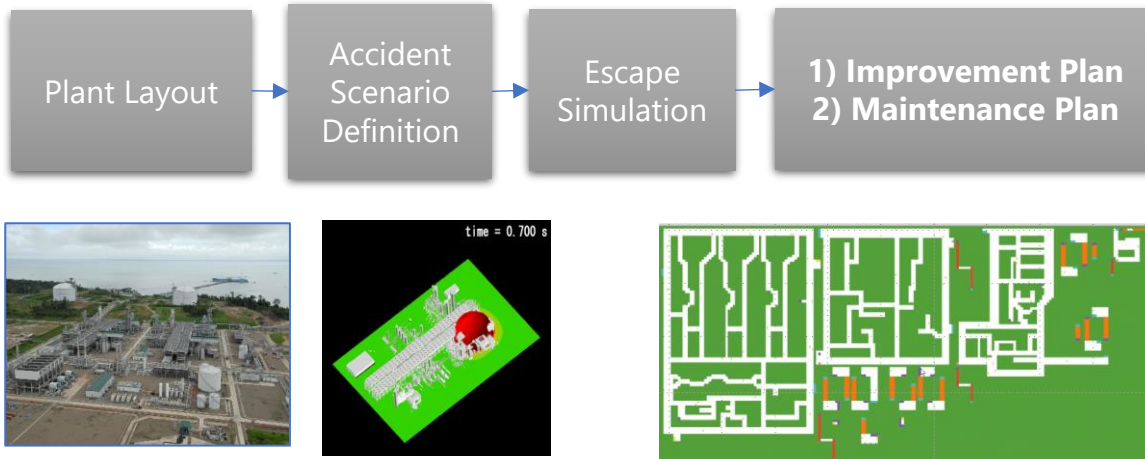
**+Characteristics of Plant Facility**



**Specialized Plant Escape Route Simulation Program**  
(developed with the University of Tokyo)



## Workflow & Result



## OUTPUTS

### 1) Improvement Plan

- ✓ Modification plan of escape route to enhance safety for operators in normal situation and accidental situation

### 2) Visualization of Escape Behavior

### 3) Maintenance Plan considering safe operator escape

- ✓ Maintenance activities in same location
- ✓ Number of maintenance persons
- ✓ Barricade plan

## Our Strengths

- **Professional Safety, Operation and Maintenance Teams**
- **Top global experience in escape route design** and evacuation planning from EPC execution  
Plant type - Refinery, Gas Processing, LNG, Chemical  
Plant location – Onshore, Offshore  
Client – IOCs, NOCs
- **Specialized escape simulation program** developed with the University of Tokyo. Research article is available in "Chemical Engineering Transactions (CET) Journal Vol 90(2022)"

## Our Experiences

**Plant and Escape Route  
Design Cases**

**500+ Cases**