

“From Cradle to Cradle”

Workshop on Planning & Design for Safety in Project Life Cycle for Public Housing Developments



Caring • 關懷為本
Customer-focused • 顧客為本
Creative • 創新為本
Committed • 盡心為本

同心展關懷

caring^{2009/10}organisation

Awarded by The Hong Kong Council of Social Service
香港社會服務聯會頒發

Overview

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31-3-2010





Objectives



Emphasize the importance and practice of planning and design for safety

- **“4C” Approach in Promoting Site Safety of “4D” Industry**
- **Planning & Design for Safety • A Shared Responsibility**
- **Safety is More Than a System.....It’s a Culture!**
- **12 C’s for Team Building • Plan–Do–Check–Act**
- **Project Development & Delivery • Risk Management • EFQM**
- **Who • What • How**
- **Topics for Experience Sharing**



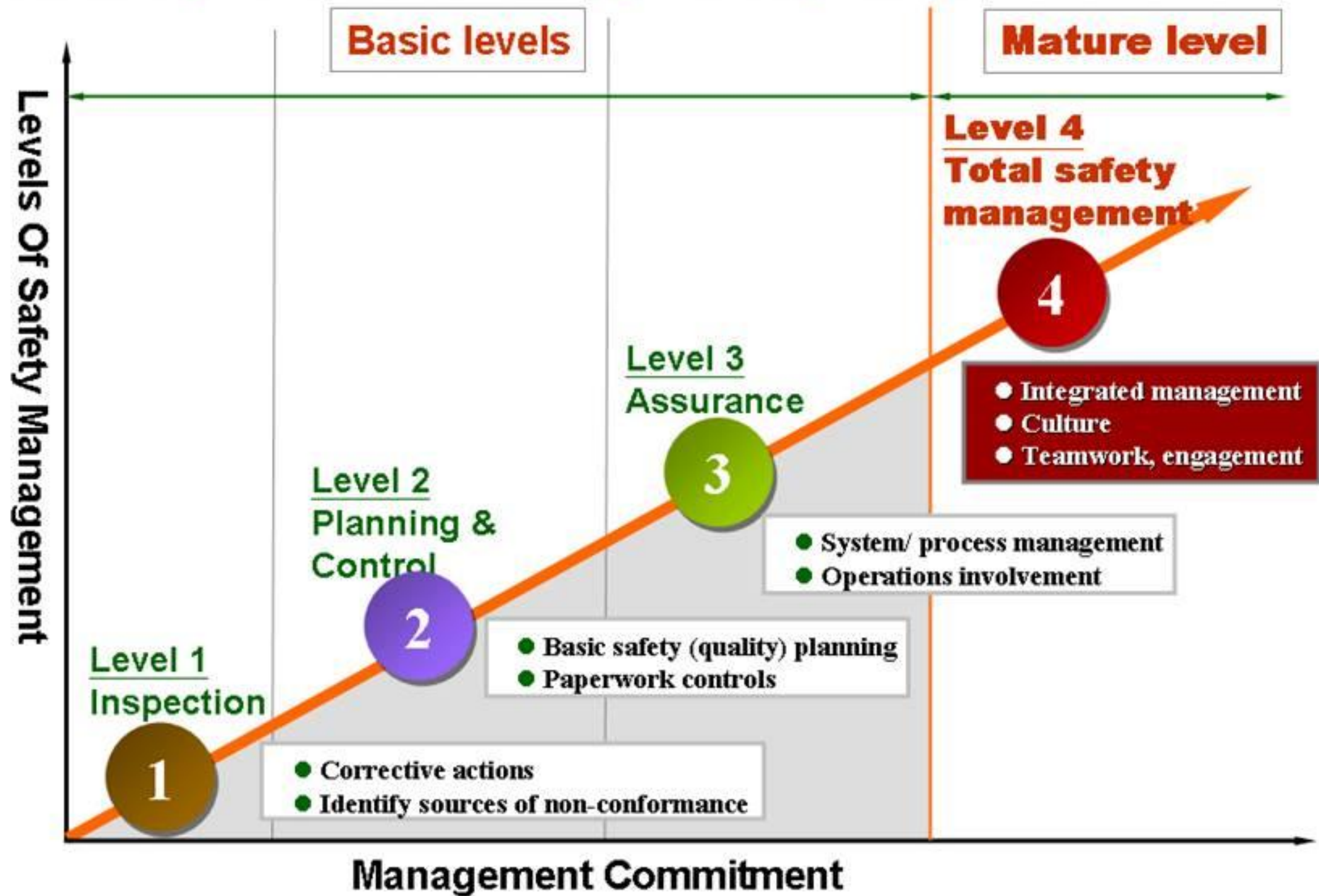
Safety is everybody's business.
Safety & Quality goes hand in hand.
Prevention is better than cure.

- Planning and design for safety – a shared responsibility --- **teamwork** is important!
- Consideration of safety aspects for construction, operation, maintenance and management in planning, design and implementation stages
- Both temporary and permanent designs should be well considered to minimize safety risks for workers carrying out construction, maintenance and management work, as well as end users
- Execution method for construction or maintenance works should be carefully planned by Contractors to eliminate, reduce and manage risks to workers



Safety is More Than a System.....It's a Culture! (1)

Maturity Levels of Safety Management



Safety is More Than a System.....It's a Culture! (2)

Escalating safety to the next level

Safety leadership \neq safety management

Escalating safety to the next level requires –

- Commitment
- Leadership
- Engagement
- Expectation

- Make safety “visible”
- Safety more than a system It's a **CULTURE**



12 C's for Team Building

"Teamwork is the ability to work together toward a common vision. The ability to direct individual accomplishments toward organizational objectives. It is the fuel that allows common people to attain uncommon results."

--Andrew Carnegie

- Clear expectation
- Context
- Commitment
- Competence
- Charter
- Control (freedom & empowerment)
- Collaboration
- Communication
- Creative innovation
- Consequences
- Coordination
- Cultural change

Plan-Do-Check-Act



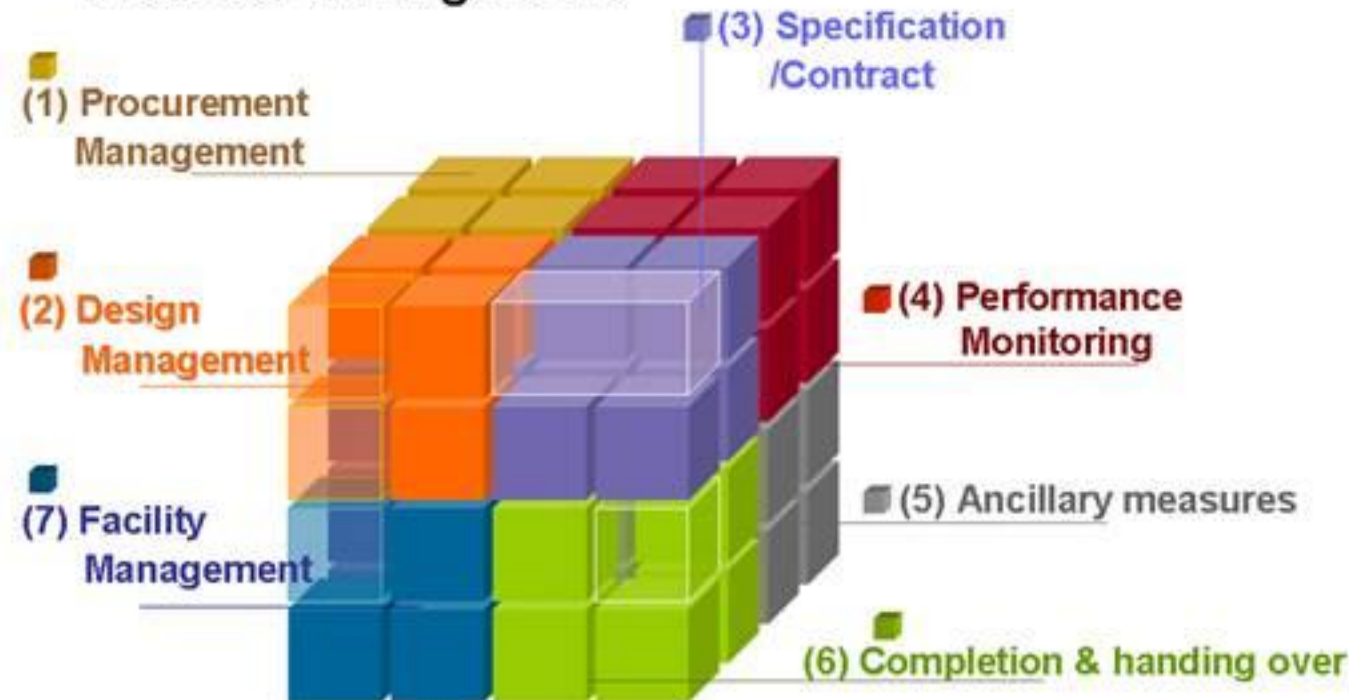
Project Development & Delivery

- Roadmap of project development & delivery process ---from planning, design, tender/contract, construction, completion, handing over to occupation, management and maintenance
- Process management & mechanisms

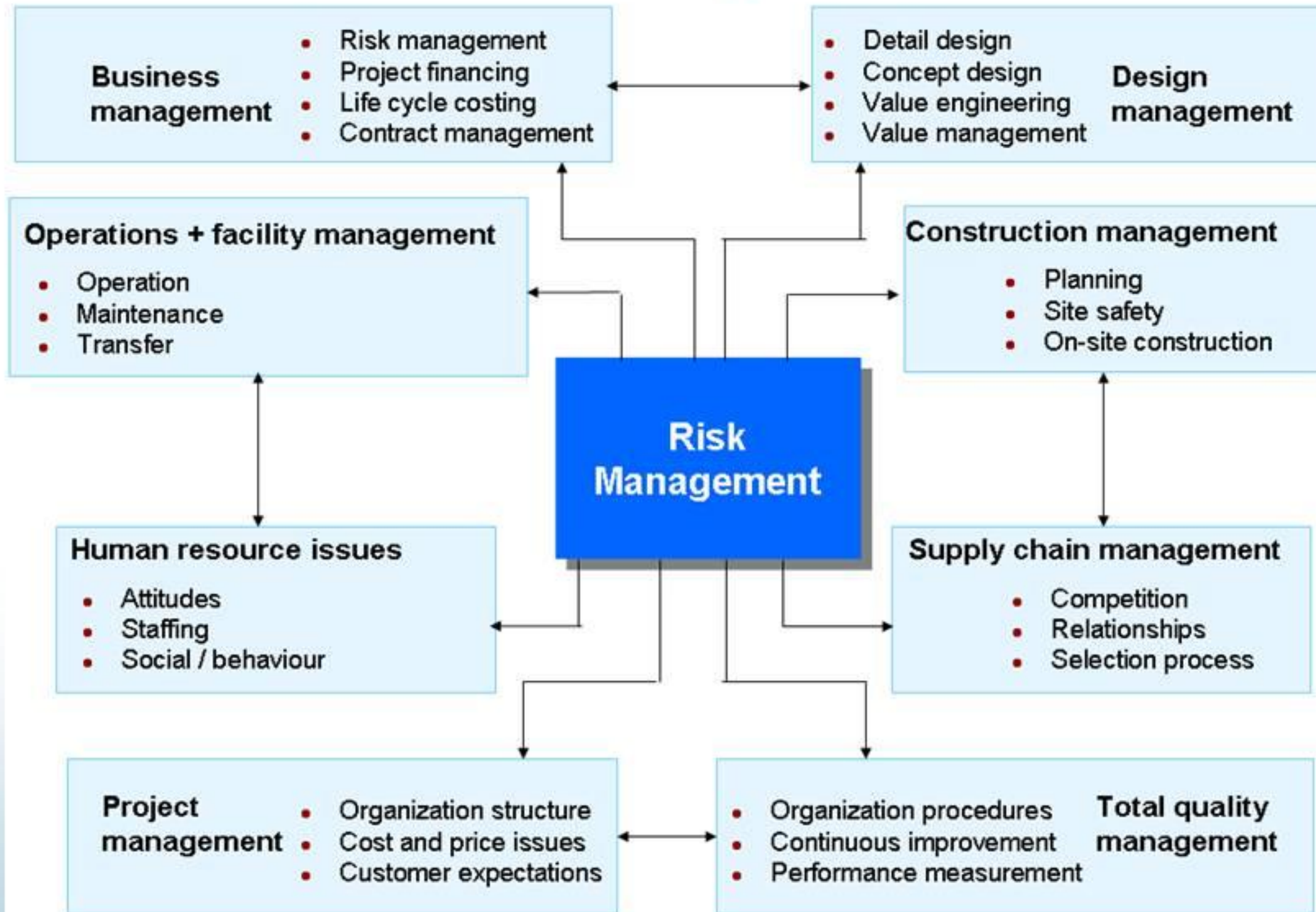
Project Programme



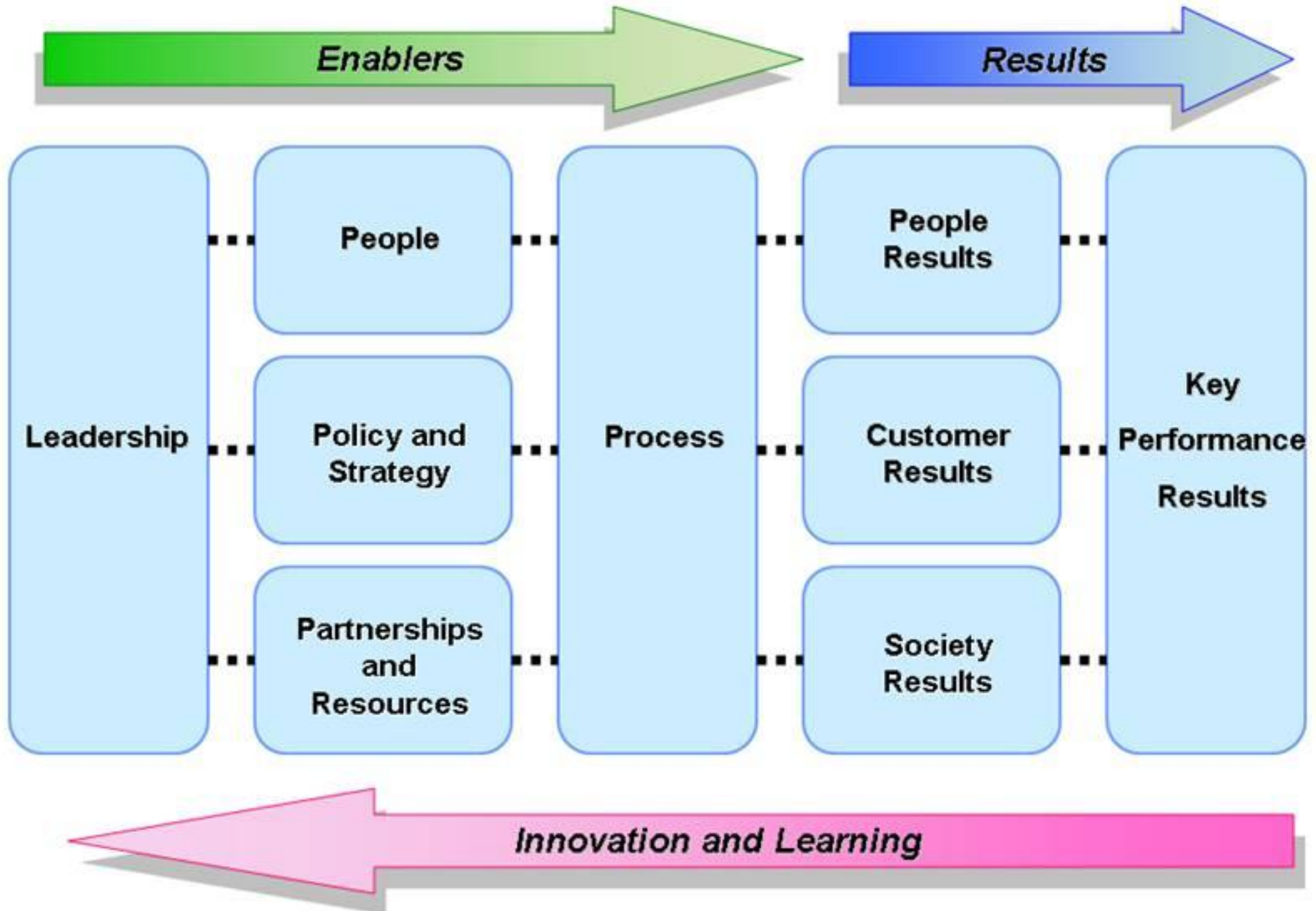
Process Management



Risk Management



EFQM



Who is “designer”?

- Procurement Designer
- Designer for permanent works and facility management
- Designer for temporary works and works execution during construction or maintenance

What is Safe Design?

- Safe design involves **holistic considerations** such as client /users’ requirements, function, operation, aesthetics, environment-friendliness, durability, maintainability and life-cycle cost effectiveness etc. embracing elements of safety and in compliance with statute and contract.
- It is about making **sound judgment and decisions** on choices about design, materials, method of construction to enhance occupational safety in project life cycle with **sustainability in mind**.
- It improves **risk management** of OSH issues.

How can “Designer” practise safe design?

- **Identify the hazards and detailing methods, sequences and materials etc.** to be adopted through the project, to reduce risks during construction, commissioning, maintenance and demolition.
- **Collaborate with other designers** to identify hazards at interfaces and overlapping areas in order to reduce risks.
- **Provide safety and health information** for incorporation into safety plan / maintenance / operation plan.

Topics for Experience Sharing

- **Perspective from Designers for Procurement**
-- from PSP to contractors
- **Benchmarking Safety in Project Planning & Design**
-- Modelling best practices around the globe
- **Perspective from Designers for Temporary Works and Works Execution of Construction or Maintenance Works**
-- Swiss Cheese Safety Management -- Six Point Safety Focus to achieve zero harm
- **Case Studies**
-- Learning from past incidents
- **Useful Tools Utilizing Information Technology**
-- Integration of CDM and BIM
- **Perspective from End Users**
-- Practical and vivid examples
- **Designers for Permanent Works or Facility Management**
-- Design and technical expertise, ingenuity, collaboration and common sense

Discussion Forum

- Views and opinions



“4C” Approach in Promoting Site Safety of “4D” Industry

HA's 4C Core Values	“4D” Industry
● Caring	● Dirty
● Customer-focused	● Dangerous
● Committed	● Demanding
● Creative	● Disruptive



- To help all families in need gain access to adequate and affordable housing



- To provide affordable quality housing, management, maintenance and other housing related services in a proactive and caring manner
- Cost-effective and rational use of public resources
- Competent, dedicated and performance-oriented team

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Unique nature of construction & maintenance works

- Volatile & mobile workers
- Transient working environment
- Heavy plant & machinery
- Involve sub-contracting
- Intensive manual labour work



The Programme begins.....