

EAM

Enterprise Asset Management

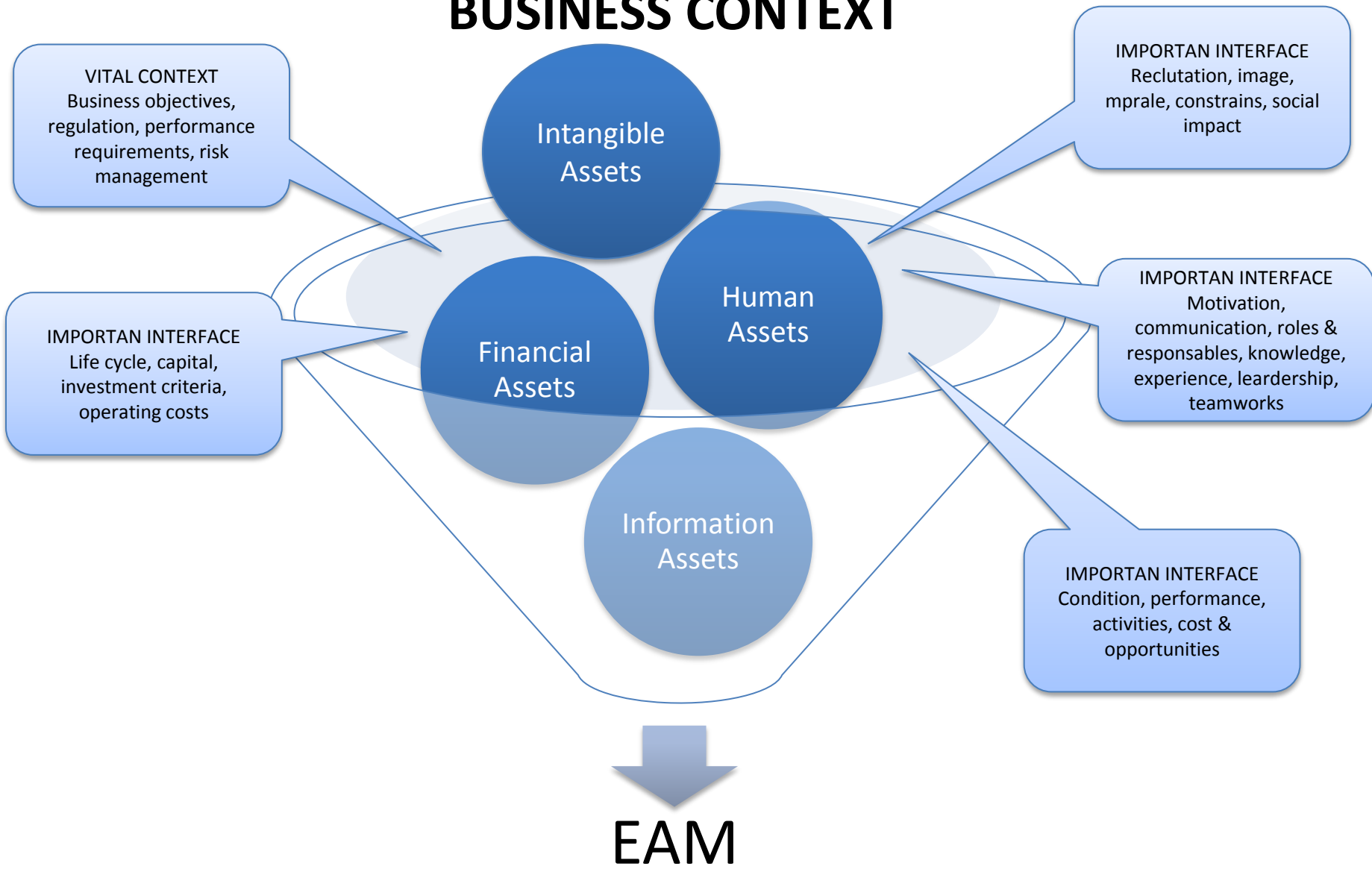
WHAT IS ASSET MANAGEMENT IN 2010 ?

by John Woodhouse Chair of Faculty, IAM

The term “Asset Management” currently has three different principal uses:

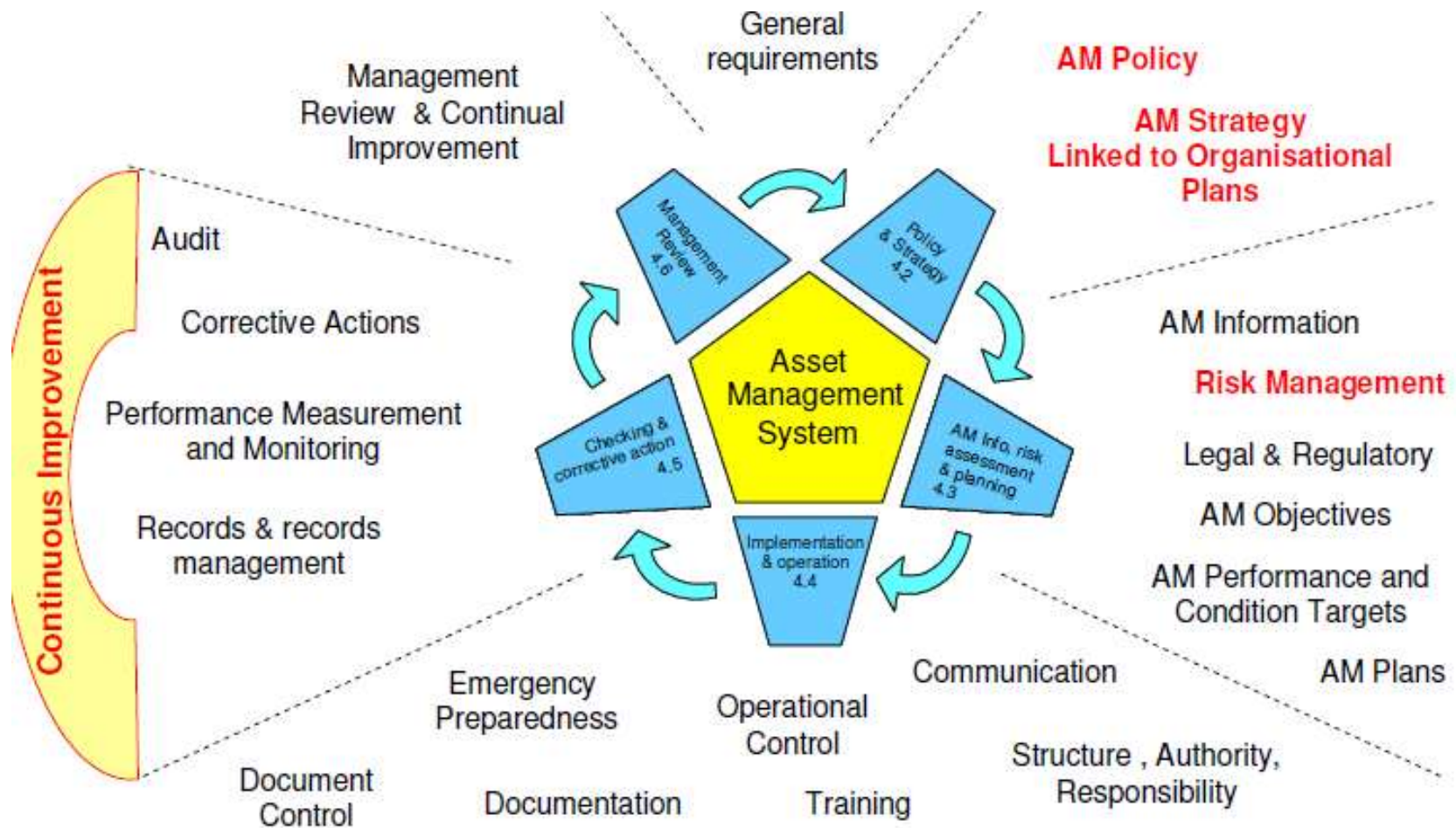
1. The **financial services** sector has long used the phrase to describe the management of a stock or investment portfolio – trying to find the best mix of capital security or growth and interest rates or yield.
2. “**Equipment Maintenance = Asset Management**” Some industrial and infrastructure maintainers (and certain software vendors) have adopted the term to try to boost the professional standing of the maintenance function. This, however, is a narrow and self-limiting view that misses many of the biggest opportunities. Asset care (maintenance) is just one part of asset management.
3. **The core business for organisations that are heavily dependent on physical equipment, systems and infrastructure.** This encompasses all aspects of investing in the right assets in the first place, exploiting them appropriately, caring for them (maintenance) and ultimately replacing or disposing of them. *This is the meaning defined in the BSI PAS 55:2008 Publicly Available Specification for the optimal management of physical assets.*

BUSINESS CONTEXT

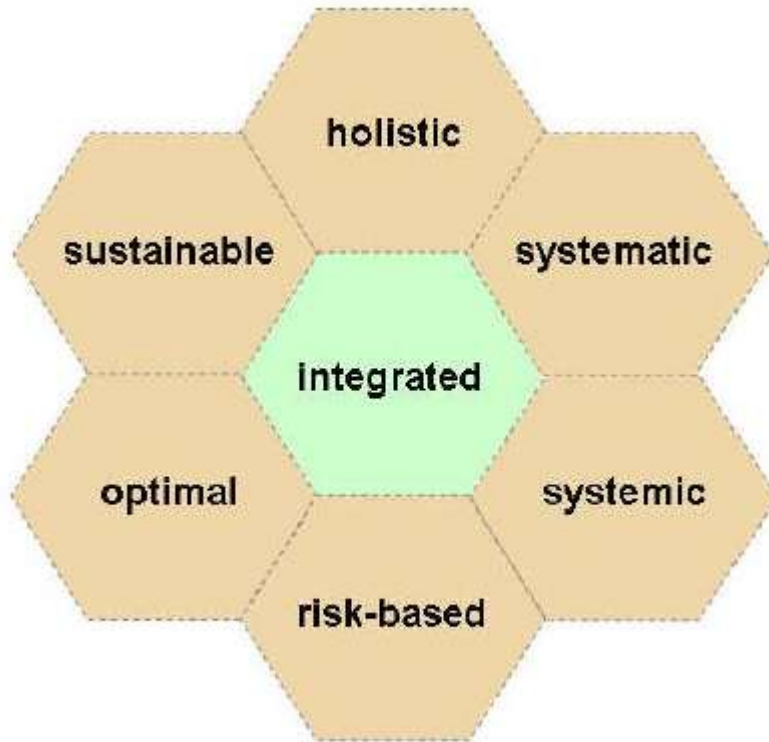


ASSET MANAGEMENT NEW STANDARDS

focusing on continuous improvement, strategy and risk management



SEVEN KEY ATTRIBUTE OF GOOD PRACTICE IN ASSET MANAGEMENT



HOLISTIC

asset management must be cross disciplinary, total value focused

SYSTEMATIC

rigorously applied in a structured management system

SYSTEMIC

looking at assets in their systems context, again for net, total value rather than component or localized goals

RISK-BASED

incorporating risk appropriately into all decision-making

OPTIMAL

seeking the best optimal between conflicting objectives, such as costs versus performance versus risks, or short term versus long term benefits.

SUSTAINABLE

plans must deliver optimal whole asset life cycles rather than artificial short-term results at the expense of long-term consequences.

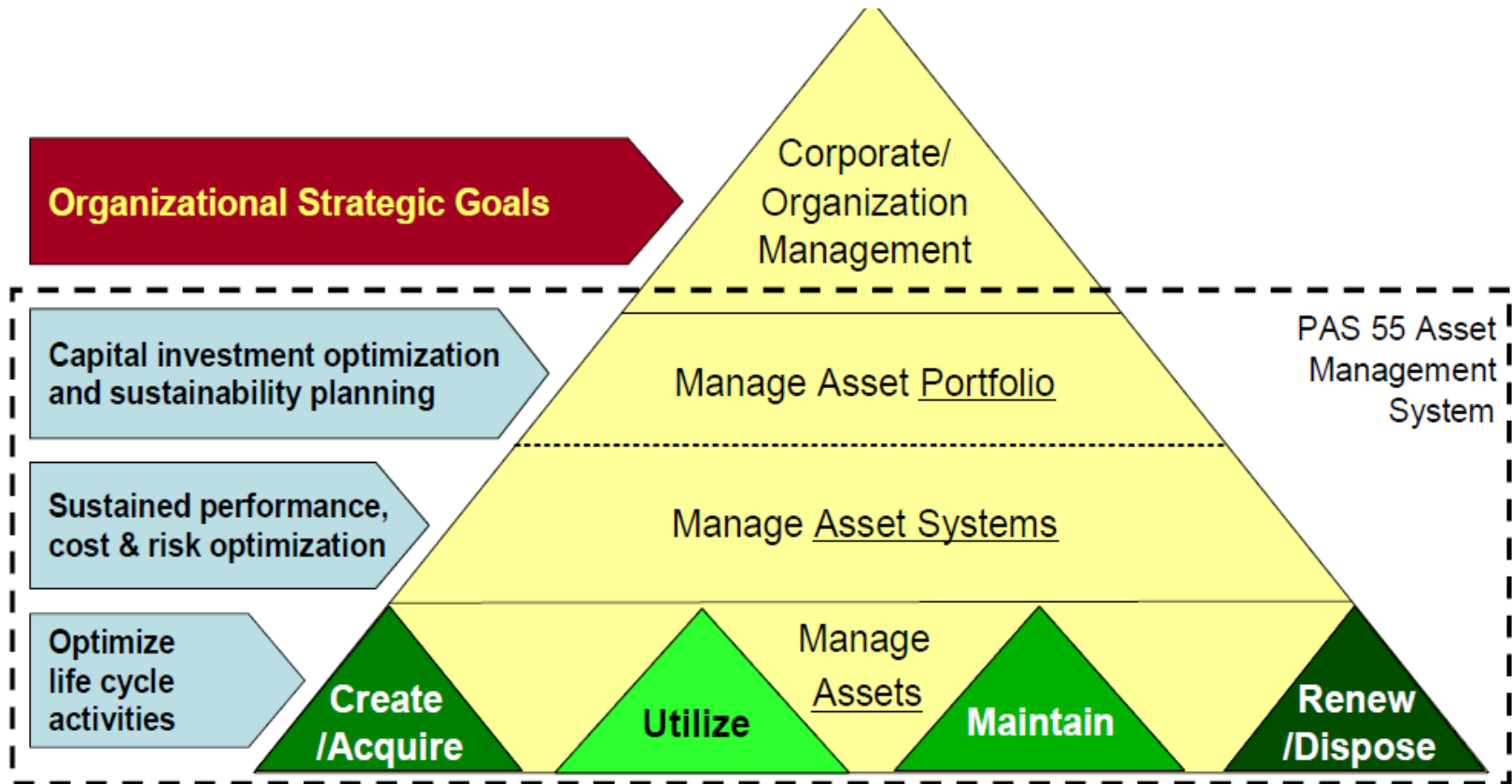
INTEGRATED

At the heart of good asset management lies the need to be joined-up. The total jigsaw puzzle needs to work as a whole – and this is not simply «sum of the parts»

BSI PASS 55 2008 STANDART

optimal management of physical assets

Systematic and coordinated activities and practices through which an organization optimally and sustainably manages its assets and asset systems, their associated performance, risks and expenditures over their life cycles for the purpose of achieving its organizational strategic plan.



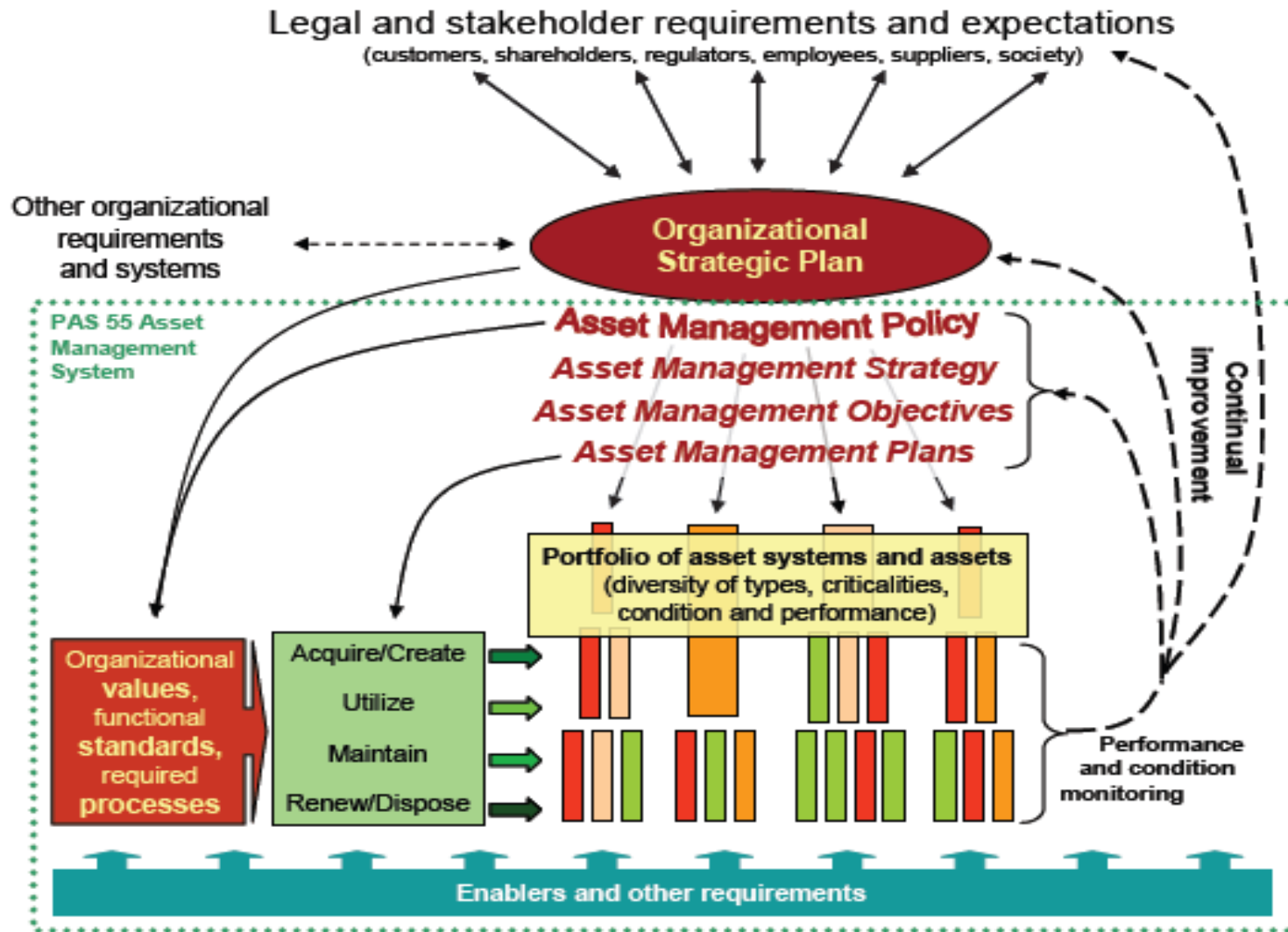
ASSET MANAGEMENT PDCA CYCLE

the **plan-do-check-act** cycle for continuous improvement

- ❑ **Asset Management Policy.** Mandatory requirement , overall intention/principles and framework for control of assets management that provides direction on how to effectively manage physical assets in line with the organization's goals and objectives.
- ❑ **Asset Management Strategy,** Long-term optimized and sustainable direction for the management of assets, to assist in delivery of the organization strategic plan and apply the management policy
- ❑ **Asset Management Objectives.** Specific and measurable outcomes required of assets that enable the business to detect potential defects before they escalate into incidents that might impact safety, environment or operational performance; and/or increase the cost of initiating maintenance.
- ❑ **Asset Management Plans.** Specific actions, responsibilities, resources and timescale to implement the asset management strategy and deliver the assets management objectives.
- ❑ **Asset Management Enablers.** The organizational structure of roles, responsibilities and authorities that aligns with the asset management policy, strategy, etc. This is essential because accountable people, not policies, bring about sound asset management.

CONNECTIVITY IN AN ASSET MANAGEMENT SYSTEM

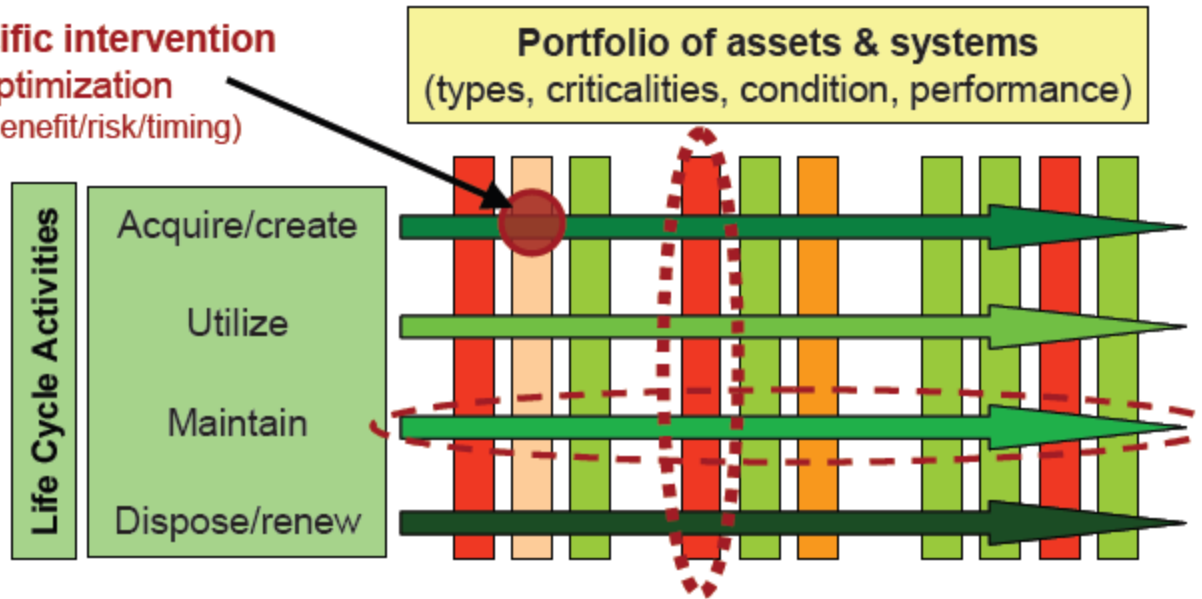
top-down & bottom-up coordination of direction & delivery



REQUIREMENTS FOR OPTIMIZING ASSET MANAGEMENT ACTIVITIES

optimization of what should be done, where, when & how

1. Specific intervention optimization
(cost/benefit/risk/timing)



3. Activity programme optimization
(cost/benefit/risk/timings)

2. Asset life cycle optimization
(cost/performance/risk/sustainability)

a) Individual Assets (whole life cycles)

b) Asset System integration level (performance sustainability)

EVERYBODY CONTRIBUTING TO DELIVER OPTIMAL VALUE

Work
Responsibility

Competitive
edge features

HOW

Operators & Maintainers

Attention to
detail, teamwork,
continuous improvement

WHAT, WHEN

Engineers & Technical
Specialists

Strategy methods &
reliability concepts
understanding

WHY

Business
Managers

Clear directional vision,
visible & sustained
commitment/support

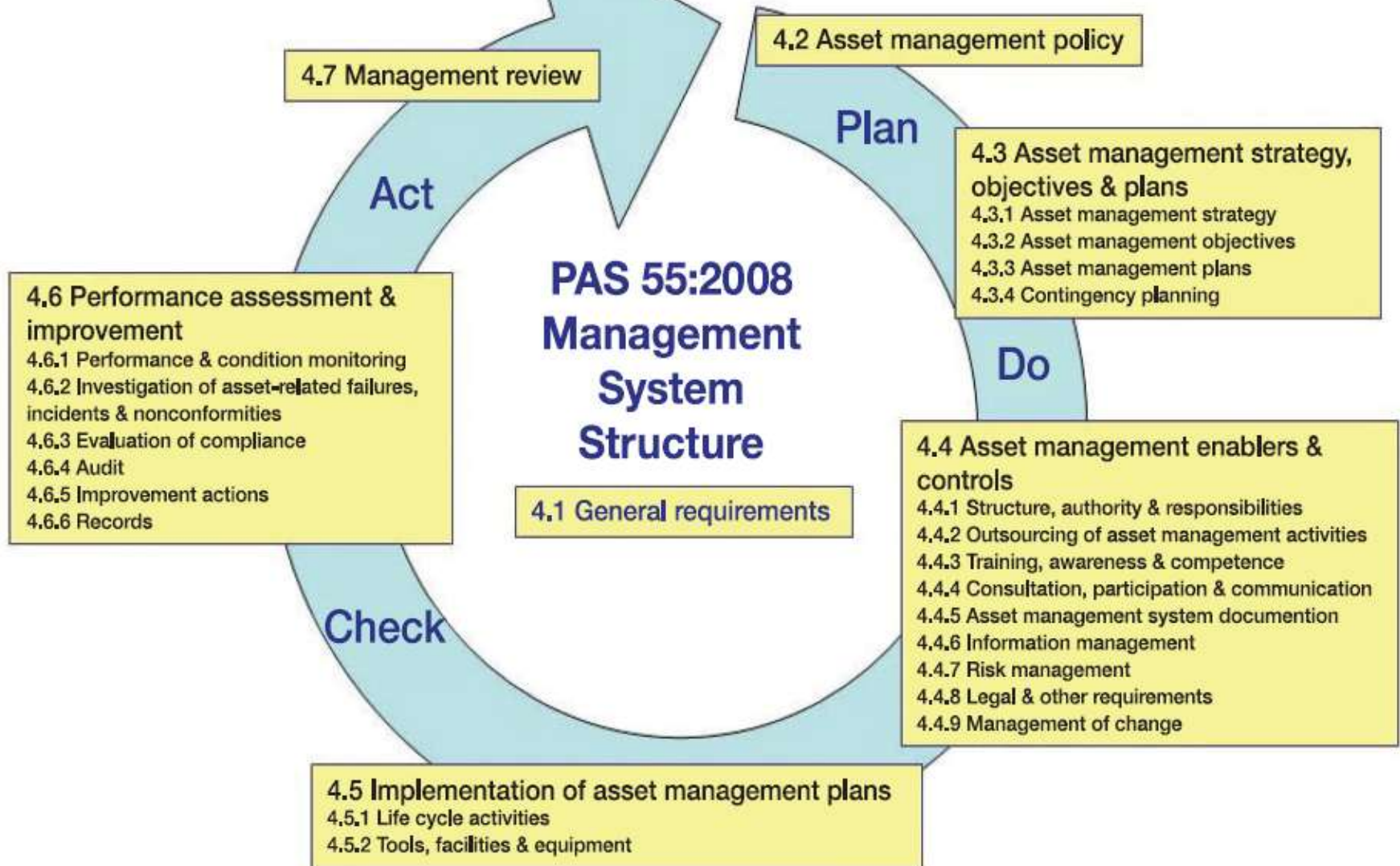
ASSET MANAGEMENT CHALLENGES AND OPPORTUNITIES

To manage cost and risk and align operations with business strategy, organizations must be able to answer fundamental questions about their assets, such as:

- ❑ What assets do we have, what condition are they in, what function do they perform, and what is their contribution to value?
- ❑ Do we have sufficient capacity (or under- or over-capacity) in our asset portfolio? Are some assets redundant, underutilized, unprofitable or burdensomely expensive?
- ❑ Are the risks of our assets causing harm to people and/or the environment at legally and organizationally acceptable levels?
- ❑ Can we accurately evaluate the performance, risk reduction, compliance and/or sustainability benefits of proposed work or investments; and likewise the impact of delaying or not performing the proposed actions?
- ❑ Can we confidently address these lines of inquiry and provide answers to stakeholders with a clear audit trail and reliable data?

ASSET MANAGEMENT PDCA CYCLE

the **plan-do-check-act** cycle for continuous improvement



MANAGE PHYSICAL ASSETS / PROCESS PARALLELS PAS 55

Asset intensive industries have been underserved for decades with solutions and mobile technologies designed for field service organizations. The following recent trends are forcing these industries to take a fresh look and seek mobile solutions that address their unique pressures and priorities:

- Reduced revenues and sources of capital due to the global economic crisis
- Aging workforces and employee turnover increasing the need for knowledge-based solutions in the field
- Aging infrastructure and increasing demand forcing enterprises to move from reactive to preventive maintenance
- Environmental trends promoting a need for field optimization and best practices to reduce carbon footprints
- New green segments in energy-related industries demanding new work forces, new skill sets, etc.
- Increasing public scrutiny forcing increasing and changing regulation, particularly in developing countries where health/safety/ compliance previously was less of a consideration
- Increasing regulation/compliance requiring repeatable and reliable processes in the field
- Growth in non-traditional business lines (for example, consumer energy related products and offerings)
- Increasing security demands
- Smart Grid technologies

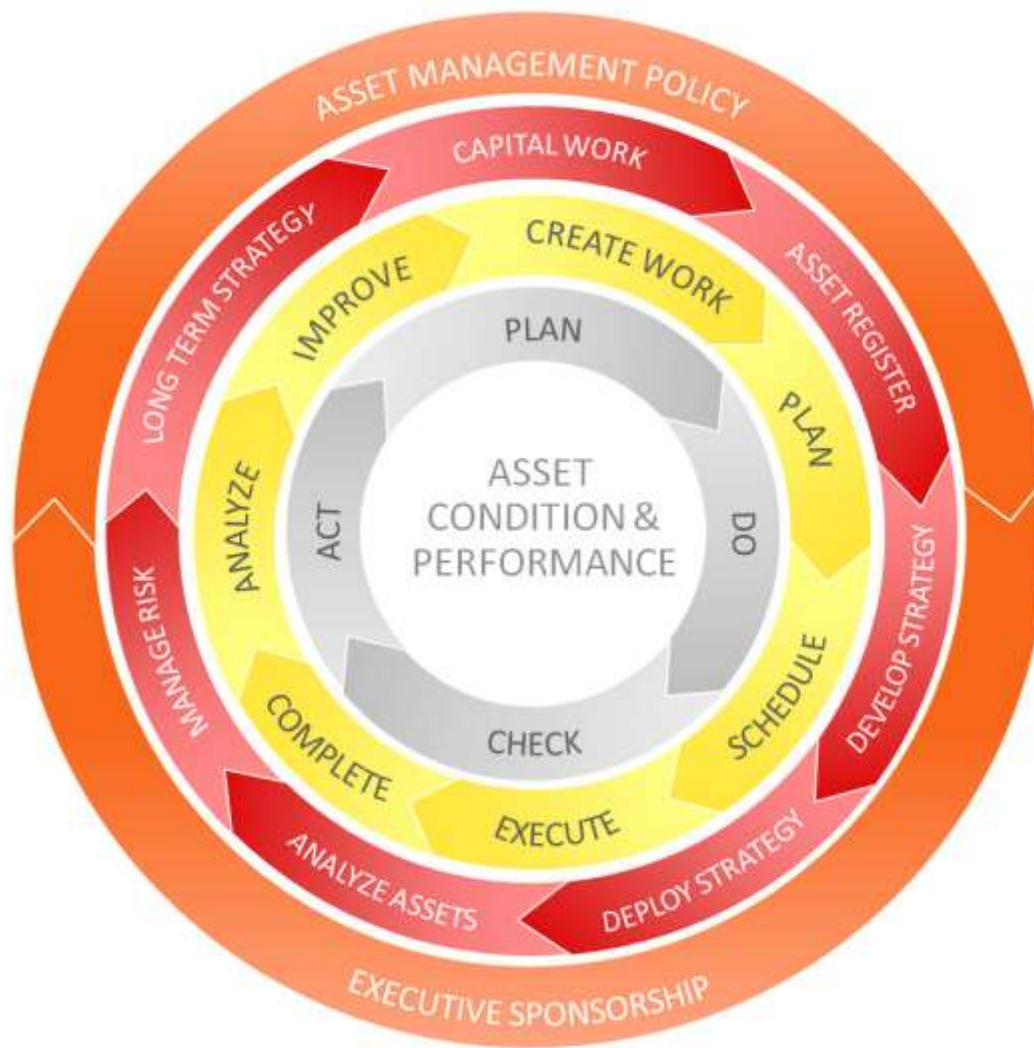
MANAGE PHYSICAL ASSETS / PROCESS PARALLELS PAS 55

Asset service organizations must thus increasingly seek mobile asset service solutions that enable their field operations to:

- Detect required maintenance actions earlier, to increase proactive work and reduce reactive work and associated costs
- Respond more quickly to events without undermining the preventive operations
- Know the locations and availability of maintenance resources, including people in real-time
- Allocate resources more effectively for quick response, including safety emergencies
- Respond more organically to changing priorities
- Better enforce safety standards
- Greatly reduce the risk of catastrophic asset failure
- Comply with regulatory and legal requirements more easily
- Prolong asset longevity
- Ensure operational continuity

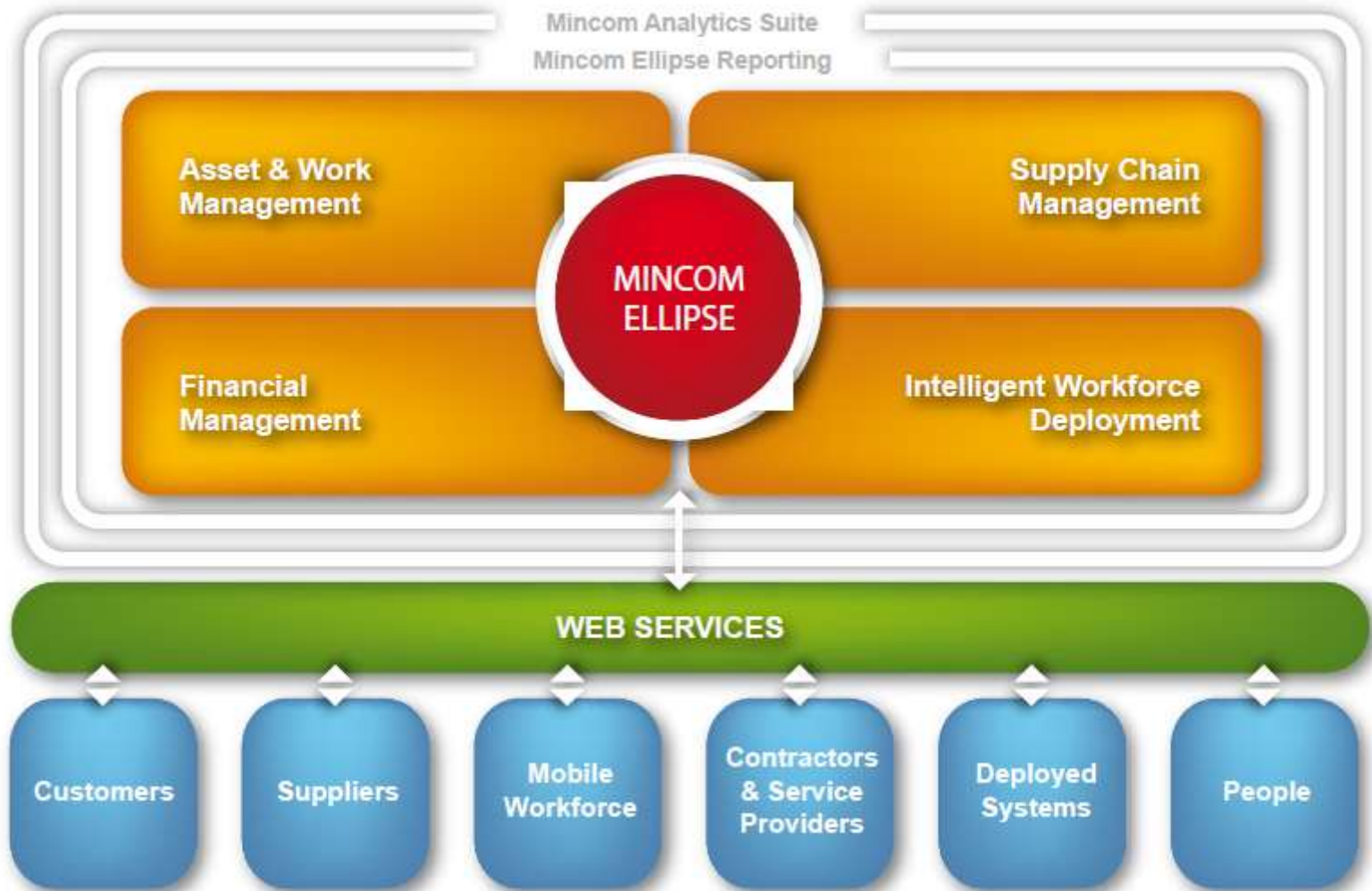
A mobile solution designed specifically for asset service can pick up where traditional mobile field service solutions stop, to fully meet the needs of asset intensive businesses.

MANAGE PHYSICAL ASSETS / PROCESS PARALLELS PAS 55



MINCOM ELLIPSE SOFTWARE SOLUTION

Enterprise Asset Management System



MINCOM ELLIPSE

Enterprise Asset Management System



MINCOM ELLIPSE

Enterprise Asset Management System



MINCOM ELLIPSE

Enterprise Asset Management System



Financial
Management

*Accounts
Payable*

*Payment
Processing*

*Customer
Information*

*Accounts
Receivable*

*Capital
Appropriation*

Fixed Assets

Journals

*Utilities Asset
Accounting*

*Management
Accounting*

*Cost
Categorization*

*General
Ledger*

MINCOM ELLIPSE

Enterprise Asset Management System



MINCOM ELLIPSE

Enterprise Asset Management System



Mincom Ellipse
Reporting

MER End User

*MER
Developer*

*Mincom Ellipse
Universes*

*Business
Objects
Designer*

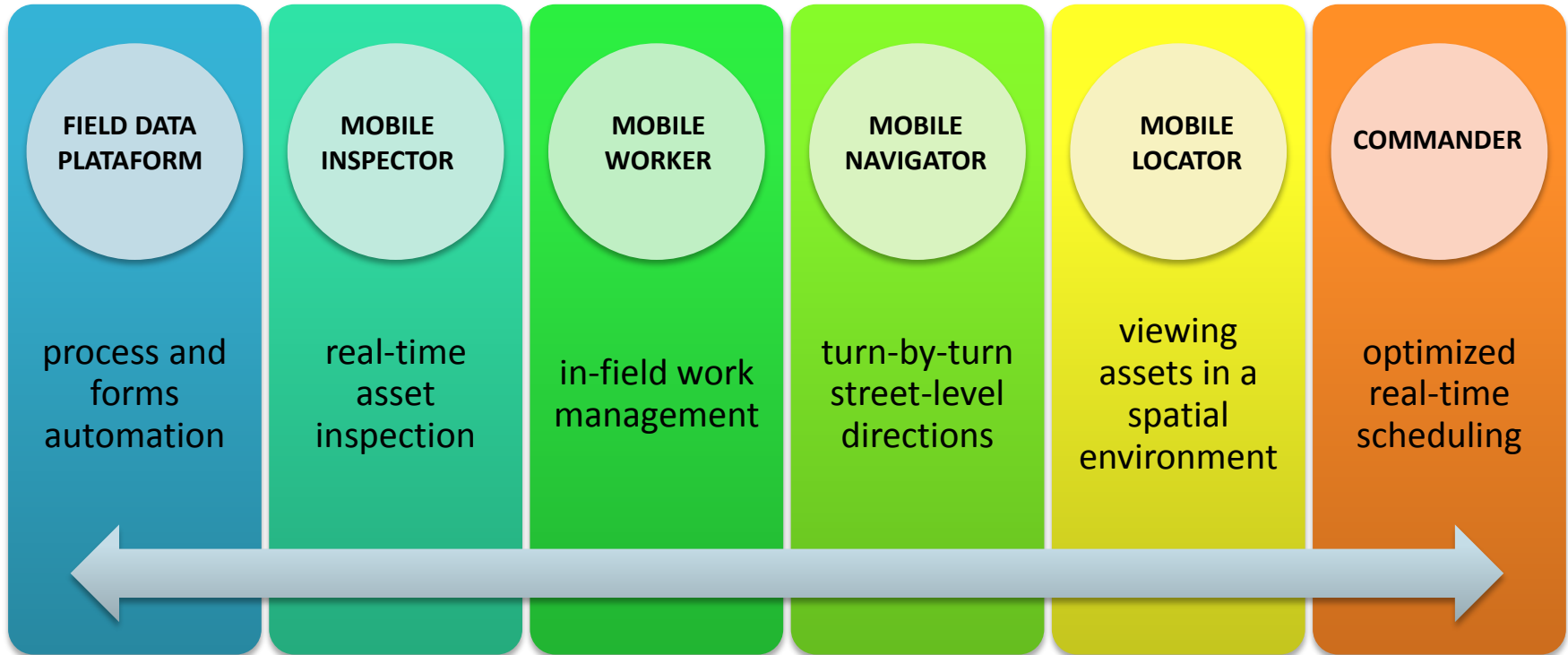
*Business
Objects
Supervisor*

*Executive
Dashboard
Starter Pack*

*Administration
Tools*

MINCOM ELLIPSE

Enterprise Asset Management System



Mobile Workforce Management

manage assets from the point of inspection, automate field-based processes, and optimize the mobile workforce, including third-party contractors.

observaciones generales

Fuente <http://www.theiam.org/>



El material de este documento es una recopilación de información publica encontrada en internet

La solución MINCOM ELLIPSE se eligió como ejemplo en consideración a la cobertura de sus funcionalidades

Cualquier aporte complementario será muy bien recibido en la casilla de correos consultora@tuyunta.com