

Sarah Alghamdi GM Balady

Al-Driven Smart Cities & Compliance: Balady & Aaseya's Journey in Inspections, CRM, and Urban Transformation

Pega World 2025 | Las Vegas







Vision

Excellence To enhance daily life by seamlessly connecting people and organizations with essential and lifestyle services

Mission

Improving Drive innovation, support local communities and SMEs, improve accessibility and convenience, and create a dynamic ecosystem that enhances quality of life and fosters economic growth

Balady's Strategic Focus

Growth

Optimization

Satisfaction

Sustainability

Expected Impact

Enhance the quality of service

Foster a culture of innovation

Elevate customer satisfaction

Improve organizational efficiency

Section 1: Celebration of Success -Recap of 2021-2024

The Three Pillars of Transformation



MCP - Smart Inspections System:

"The intelligence layer that amplifies human capabilities with Al"

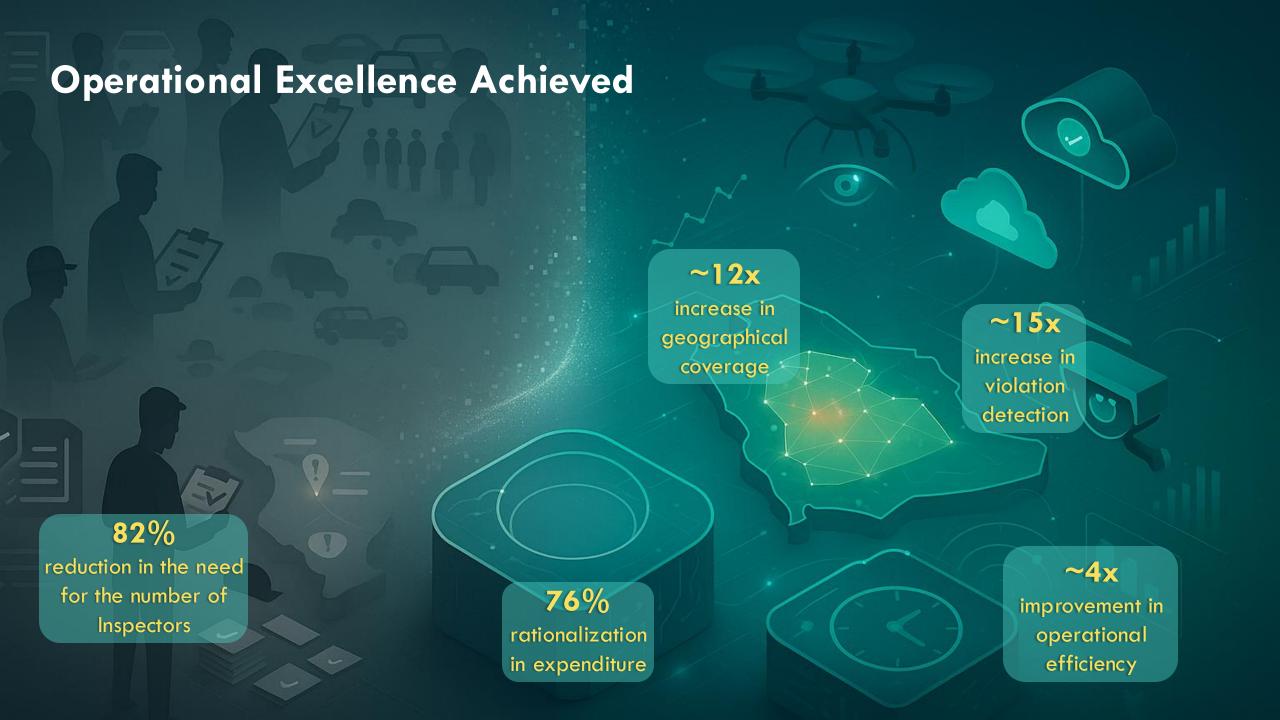
MCP - Inspection System:

"The foundation that digitized inspection processes across the Kingdom"

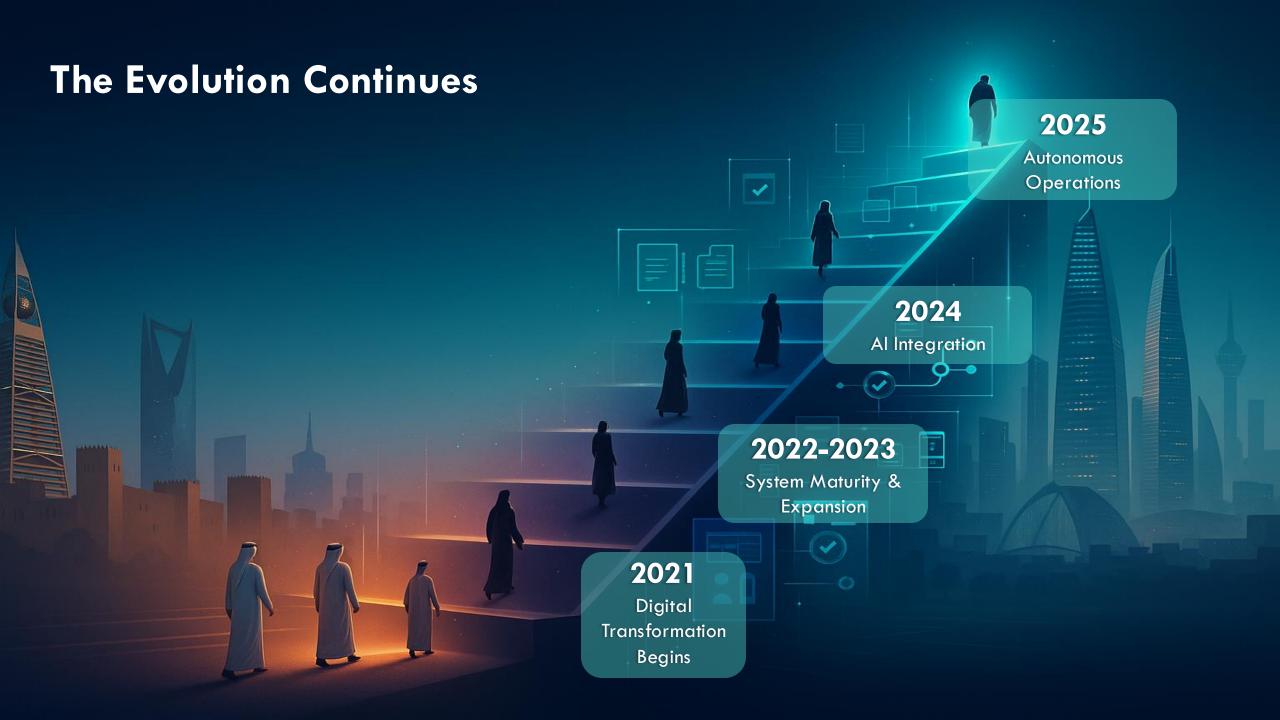
City Management System:

"The integration hub connecting all municipal operations"

Transformation Impact – By the Numbers 2+ Billion SAR 6000+ in revenue generated since users across the Kingdom 2021 **67**% 17 municipalities & reduction in 269 sub-municipalities processing time transformed



Section 2: From Automated to Autonomous



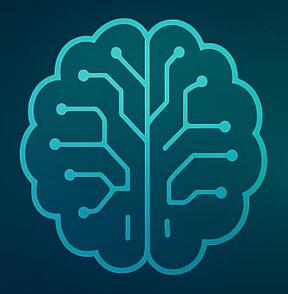
Automated Systems

Rules-based | Human-guided | Predefined Patterns



Autonomous Systems

Self-learning | Adaptive Predictive | Minimal Human Intervention





The Autonomous Vision for Balady



Section 3:
Pega Blueprint —
Our Strategic
Compass

Introducing Pega Blueprint



- Accelerated application development through guided processes
- Seamless transition from concept to implementation

Pega Blueprint in Action at Balady

SWA Integration with Momtathel for Inspection Review and Violation Processing The Saudi Water Authority (SWA) intends to extend the usage of Momtathel to manage the inspection review and violation approval process.

- 1. Inspection & Auditing Process
- · After an inspection visit is completed, the inspection Manager reviews it.
- Once approved, the visit is routed to an Auditor, whose responsibility is to ensure all findings are compliant and legally valid.
- After auditor confirmation:
- Violation details are sent via API to SWA.
- SWA sends an SMS to the violator containing a URL to view the violation details.
- The violator is required to submit a response or justification.

2. Violator Response & SLA

- There is an SLA of 5 days for the violator to respond.
- Upon receiving a response, SWA pushes it to Momtathel via API.
- If no response is received within the SLA, the case is routed to the Review and Approval Committee, based on the spatial jurisdiction.

3. Committee Review Process

Each committee includes:

- A Head
- Main Members
- Backup Members (activated as needed)
- One or more Secretaries

Role: Committee Secretary

A secretary carr:

- Pick the visit from the workbasket.
- Review the case and take one of the following actions:

Actions:

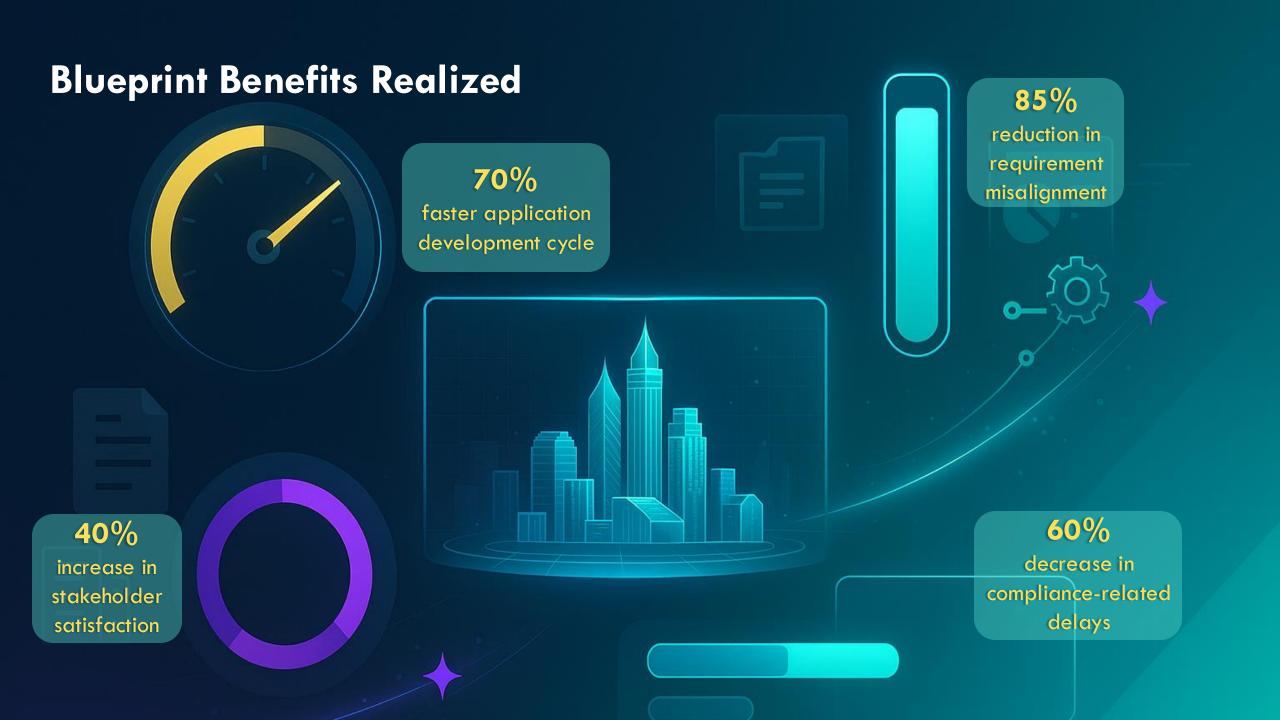
- 1. Mark as No Violation (with justification)
- SWA sends an SMS notification to the violator.
- 7 Mark as Vinlatin
- Secretary prepares a decision draft.
- The draft is routed to committee members (head, main, or active backup) for voting.

4. Committee Voting

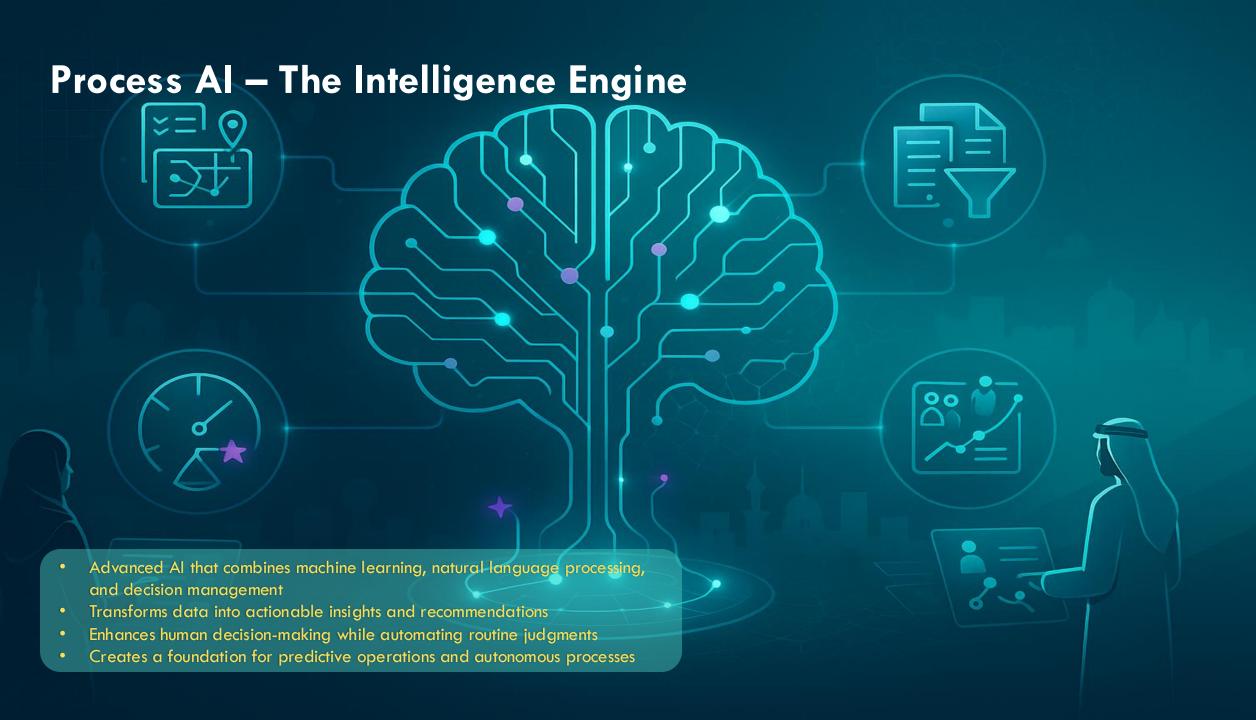
Each committee member can vote:

- 1. Violatio
- No Violation
- Conflict of Interest
- The final decision is based on a majority vote.
 - The Corretary can withdraw the death during yeting before a final decision is made
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- 1. Cooker of tensors
- The Land Address of the





Section 4:
Pega Process Al—
Intelligent Operations



Process Al Uses Cases





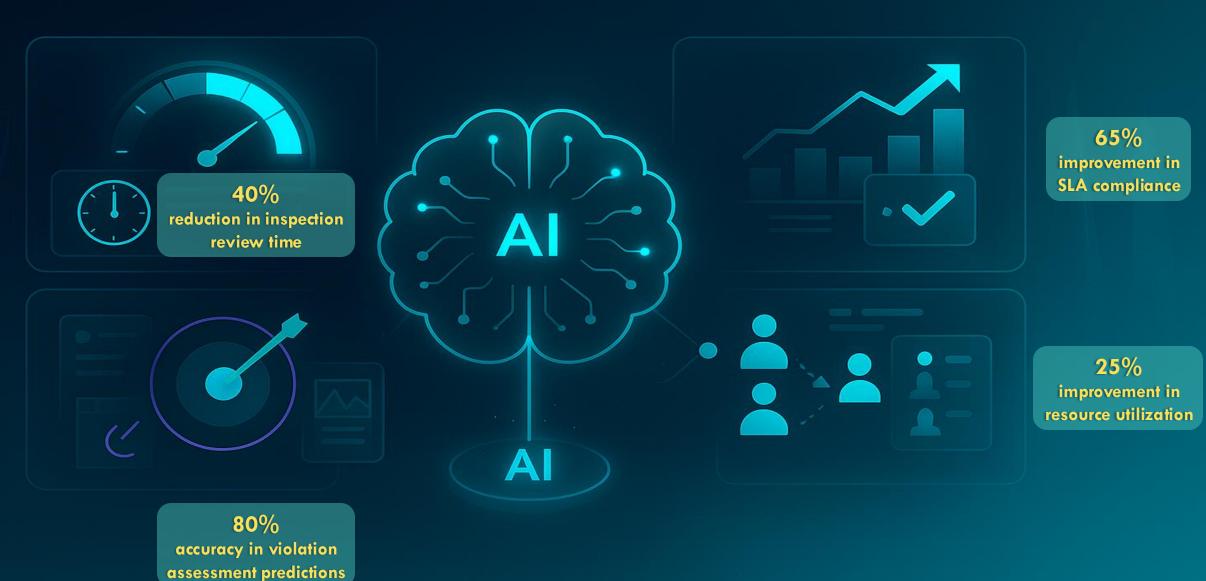


Objection Resolution



SLA Breach Prediction & Intelligent Routing

Process Al – The Results



Section 5: The Future

Pega Process Mining



Pega GenAl: Intelligent Assistance at Every Level

Knowledge Buddy Coach **Analyze Automate**

Hyperautomation with Pega Agentic AI + MCP **Empowering the Autonomous Balady:** Seamless Process Orchestration: Execute cross-departmental workflows without human intervention, ensuring consistency and agility at scale. Contextual Decision-Making: Leverage structured memory through MCP to make informed, situationaware decisions that align with regulatory and strategic goals. Continuous Self-Optimization: Enable learning loops that detect inefficiencies and proactively improve process flows, inspection routes, and resource deployment. End-to-End Governance: Ensure traceability, transparency, and policy compliance across all automated municipal operations—from service requests to field inspections.







