# ⚙️ Chapter 3 — Scrum Integration in AgilePM v3

## **3.1 Introduction**

AgilePM v3 integrates **Scrum practices** to enhance iterative delivery while maintaining **enterprise governance**. Scrum provides a **lightweight, team-centric framework**, focusing on:

* Iterative and incremental development.
* Self-organizing teams.
* Timeboxed sprints for predictable delivery.
* Transparency, inspection, and adaptation.

The goal is **combining Scrum agility with AgilePM structured governance**, enabling large organizations to scale agile effectively.

### **Table 1 — Scrum Concepts vs AgilePM Adaptation**

| **Scrum Concept** | **AgilePM Adaptation** | **Benefit** |
| --- | --- | --- |
| Sprint | Timebox within Evolutionary Development | Predictable iterative delivery |
| Product Backlog | Prioritized MoSCoW list | Focus on business value |
| Scrum Master | Role integrated with PM/Team Facilitator | Ensures agile discipline & guidance |
| Daily Scrum | Daily stand-up | Team alignment and rapid problem-solving |
| Retrospective | Continuous improvement workshops | Adaptive learning and process enhancement |
| Increment | Timebox deliverable | Incremental value delivered to stakeholders |

## **3.2 Scrum Roles Mapped to AgilePM v3**

AgilePM v3 aligns Scrum roles with its **structured framework**:

### **Table 2 — Scrum vs AgilePM Roles**

| **Scrum Role** | **AgilePM Role** | **Responsibility** | **Notes** |
| --- | --- | --- | --- |
| Product Owner | **Business Ambassador** | Defines priorities, approves features | Ensures MoSCoW alignment |
| Scrum Master | **PM / Team Facilitator** | Removes impediments, ensures timebox adherence | Maintains governance overlay |
| Development Team | **AgilePM Team Members** | Delivers increments | Multi-disciplinary, self-organizing |

**Best Practice:** In hybrid projects, **Scrum roles must not replace governance responsibilities**; they complement AgilePM accountability.

## **3.3 Scrum Artifacts within AgilePM**

Scrum artifacts are mapped to AgilePM work-products:

* **Product Backlog → MoSCoW Prioritized Requirements**
* **Sprint Backlog → Timebox Plan**
* **Increment → Timebox Deliverables / Release**

### **Table 3 — Artifact Mapping**

| **Scrum Artifact** | **AgilePM Equivalent** | **Purpose** |
| --- | --- | --- |
| Product Backlog | Prioritized MoSCoW List | Maintain focus on business value |
| Sprint Backlog | Timebox Plan | Plan iteration delivery |
| Increment | Timebox Deliverables | Provide working functionality |

**Extended Explanation:** AgilePM adds **governance checkpoints** to Scrum artifacts, enabling **auditability** and **traceability**.

## **3.4 Scrum Ceremonies in AgilePM**

AgilePM incorporates Scrum ceremonies while **enhancing control and documentation**:

### **Table 4 — Scrum Ceremonies Adapted to AgilePM**

| **Ceremony** | **AgilePM Equivalent** | **Purpose** | **Frequency** |
| --- | --- | --- | --- |
| Sprint Planning | Timebox Planning Workshop | Define scope & tasks for iteration | Each timebox |
| Daily Scrum | Daily Stand-up | Status update, problem-solving | Daily |
| Sprint Review | Timebox Review | Demonstrate deliverables to stakeholders | End of timebox |
| Sprint Retrospective | Continuous Improvement Workshop | Evaluate and improve processes | End of timebox |
| Backlog Grooming | MoSCoW Prioritization Session | Reprioritize and refine requirements | Iterative |

**Key Point:** AgilePM **formalizes Scrum ceremonies** with **documentation, dashboards, and governance checkpoints**, ensuring compliance without reducing agility.

## **3.5 Timeboxing & Iterative Delivery**

Timeboxing in AgilePM v3 **absorbs Scrum sprints**, providing structured iteration delivery:

### **Table 5 — Timeboxing Example**

| **Timebox** | **Duration** | **Key Deliverables** | **Metrics** |
| --- | --- | --- | --- |
| TB1 | 2 weeks | Core module | Velocity, defects |
| TB2 | 2 weeks | Secondary module | Velocity, quality metrics |
| TB3 | 2 weeks | Integration | Stakeholder feedback, defect rate |

**Benefits:**

* Predictable delivery.
* Continuous business validation.
* Early risk detection.

## **3.6 Product Backlog & MoSCoW Prioritization**

Scrum’s **product backlog** is fully integrated with **AgilePM MoSCoW methodology**:

### **Table 6 — Backlog Example**

| **Feature** | **Priority** | **Timebox** | **Status** |
| --- | --- | --- | --- |
| Login Module | Must | TB1 | Completed |
| Reporting | Should | TB2 | In Progress |
| UI Enhancements | Could | TB2 | Planned |
| Social Integration | Won’t | N/A | Deferred |

**Notes:**

* Business Ambassador approves prioritization.
* Team evaluates technical feasibility during timebox planning.

## **3.7 Incremental Delivery & Acceptance**

AgilePM emphasizes **incremental delivery**:

* **Increment = Timebox Deliverable.**
* **Acceptance = Defined criteria in work-products** (Business Ambassador + Sponsor).

### **Table 7 — Increment Acceptance Example**

| **Increment** | **Acceptance Criteria** | **Owner** | **Status** |
| --- | --- | --- | --- |
| Login Module | Functioning login, security tested | Business Ambassador | Approved |
| Reporting | Accurate reports, load tested | PM | Pending |
| UI Enhancements | Responsive design | Team | In Progress |

**Key Insight:** Acceptance is **formalized via work-products**, ensuring **governance and compliance** while maintaining Scrum agility.

## **3.8 Metrics and Reporting in Scrum-Aligned AgilePM**

Metrics are essential for **predictability and control**:

### **Table 8 — Scrum Metrics Aligned with AgilePM**

| **Metric** | **AgilePM Application** | **Purpose** | **Frequency** |
| --- | --- | --- | --- |
| Velocity | Stories completed / timebox | Forecast future delivery | Each timebox |
| Burn-down | Progress vs plan | Track remaining work | Daily |
| Defect Rate | QA tests failed | Quality monitoring | Continuous |
| Stakeholder Satisfaction | Feedback survey | Validate business value | Each release |

## **3.9 Risks and Impediments in Scrum**

AgilePM integrates **risk management** into Scrum ceremonies:

### **Table 9 — Risk & Impediment Tracking**

| **Risk/Impediment** | **Detection Method** | **Owner** | **Mitigation** |
| --- | --- | --- | --- |
| Delayed dependency | Daily stand-up | PM | Adjust timebox scope |
| Missing requirement | Backlog review | BA | Prioritize in MoSCoW |
| Technical challenge | Retrospective | Technical Coordinator | Allocate support / re-plan |

## **3.10 Governance Overlay**

Scrum integration does **not reduce governance**:

* **Checkpoints at end of each timebox**.
* **Work-product approvals** by Sponsor/PM/BA.
* **Audit trail** maintained for compliance.

### **Table 10 — Governance Checkpoints**

| **Checkpoint** | **Ceremony** | **Work-Products Reviewed** | **Participants** |
| --- | --- | --- | --- |
| Timebox Completion | Sprint Review | Timebox Deliverables | PM, Sponsor, BA |
| Risk Review | Retrospective | Risk Register | PM, Technical Coordinator |
| Release Approval | Deployment | Release Plan | Sponsor, PM |

## **3.11 Collaboration Tools**

AgilePM leverages Scrum collaboration tools enhanced with governance:

### **Table 11 — Tools and Techniques**

| **Tool** | **Purpose** | **Frequency** | **Participants** |
| --- | --- | --- | --- |
| Jira / Trello | Backlog management | Continuous | Team, BA |
| Confluence | Documentation | Continuous | PM, Team |
| Workshops | Prioritize backlog, plan | Each timebox | Team + BA |

## **3.13 Summary of Scrum Integration**

### **Table 13 — Key Takeaways**

| **Aspect** | **Benefit** | **AgilePM Enhancement** |
| --- | --- | --- |
| Timebox | Predictable delivery | Integration with Governance |
| Backlog | Value prioritization | MoSCoW + BA approval |
| Roles | Clear responsibility | Scrum roles + AgilePM overlay |
| Ceremonies | Team alignment | Formal work-product review |
| Metrics | Visibility & control | Dashboards & KPIs |
| Incremental Delivery | Early value | Acceptance criteria & QA checks |
| Risk Management | Mitigation | Linked to Risk Register |