

# BULAN PROFILING RESIDENT AND POPULATION MANAGEMENT SYSTEM

(SDLC AND GANTT CHART)

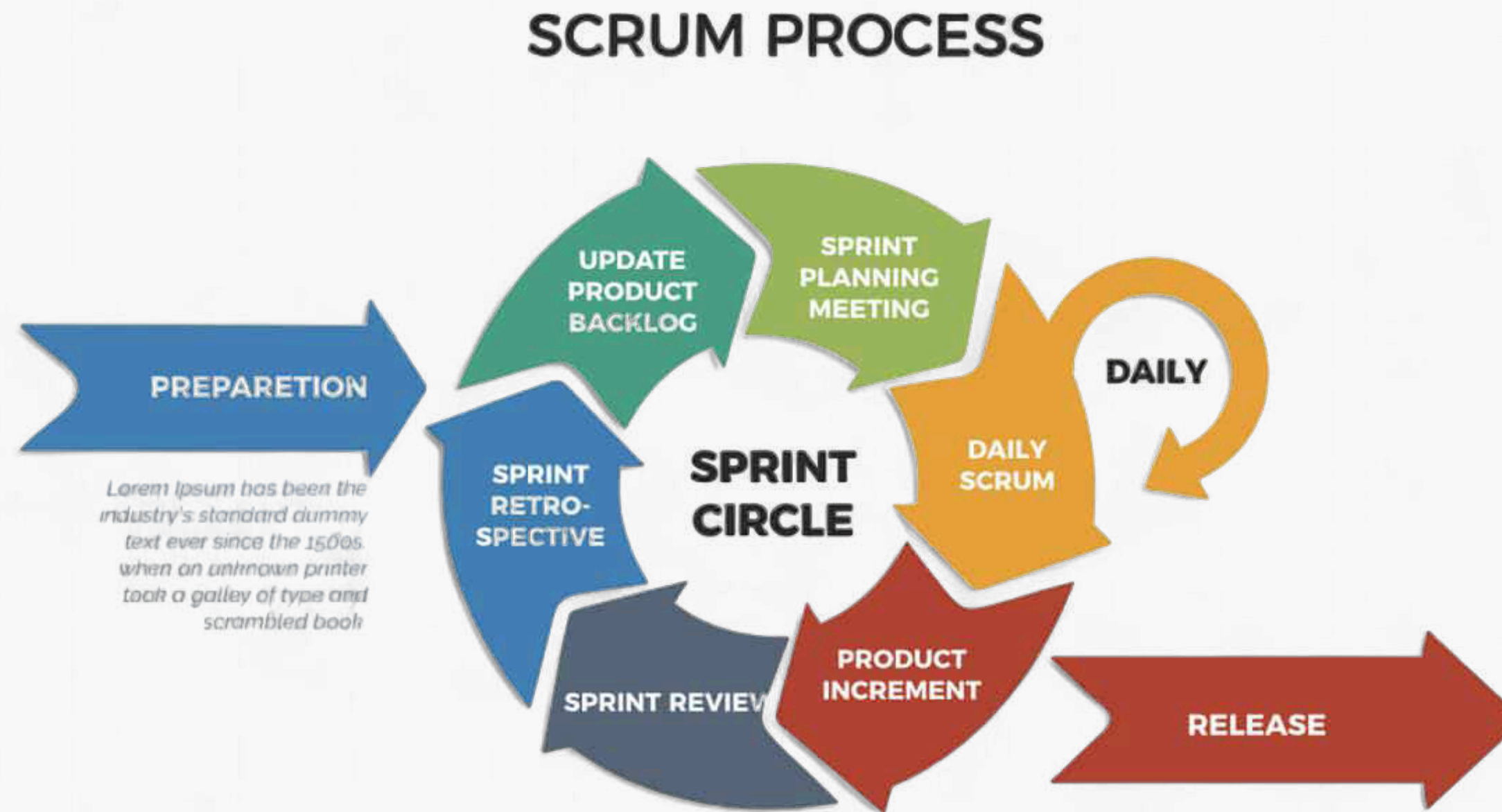


# ADOPTED SDLC MODEL: AGILE (SCRUM FRAMEWORK)

The Agile Scrum methodology is the most suitable SDLC model for the bulan Resident Profiling and Population Management System because:

- **Changing Requirements-** Barangay population data changes frequently (new residents, migration, births, deaths). Scrum allows flexibility to adjust requirements each sprint.
  - **Continuous Feedback** - Barangay officials and health workers can provide feedback every sprint to refine the system according to their needs.
  - **Incremental Delivery** - Features like resident registration, health records, and reporting can be delivered in increments, so users benefit early without for the whole system.
  - **Collaboration** - Promotes teamwork between developers, barangay officials, and stakeholders, ensuring the system addresses real community nee
- Risk Reduction** - Regular sprint reviews and retrospectives help identify and fix problems early reducing the risk of failure

# SOFTWARE DEVELOPMENT LIFE CYCLE (SDLC) AGILE



# SCRUM PROCESS APPLIED TO THE SYSTEM

## Sprint Planning Meeting

- Define sprint goals (e.g., "Build resident registration module").
- Create product backlog tasks: forms, database schema, search function etc.

## Product Increment

- Deliver working features such as:
  - Adding resident profiles
  - Generating barangay population reports

Updating household information

## Sprint Retrospective

- Reflect on what worked and what needs improvement in the process.

## Release

- Deploy the stable version to the barangay for real use after successful testing.



## Preparation

- Gather requirements from LGU, barangay captains, and health workers.
- Identify core features: resident profiling, population statistics, household records, and report generation.

## Daily Scrum

- Team members discuss progress, blockers, and next steps.

## Sprint Review

- Demonstrate the new feature to barangay officials and health workers for feedback

## Update Product Backlog

- Adjust tasks for the next sprint based feedback

## We chose Agile-scrum because it:

- Provides **flexibility** for evolving requirements.
- Ensures **continuous improvement** through feedback loops.
- Delivers **early results** (barangays can test modules immediately).
- Reduces **risks** by catching errors early in each sprint.

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