Improve Your Software Quality with RateYourProject.org

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So your code will see the future.

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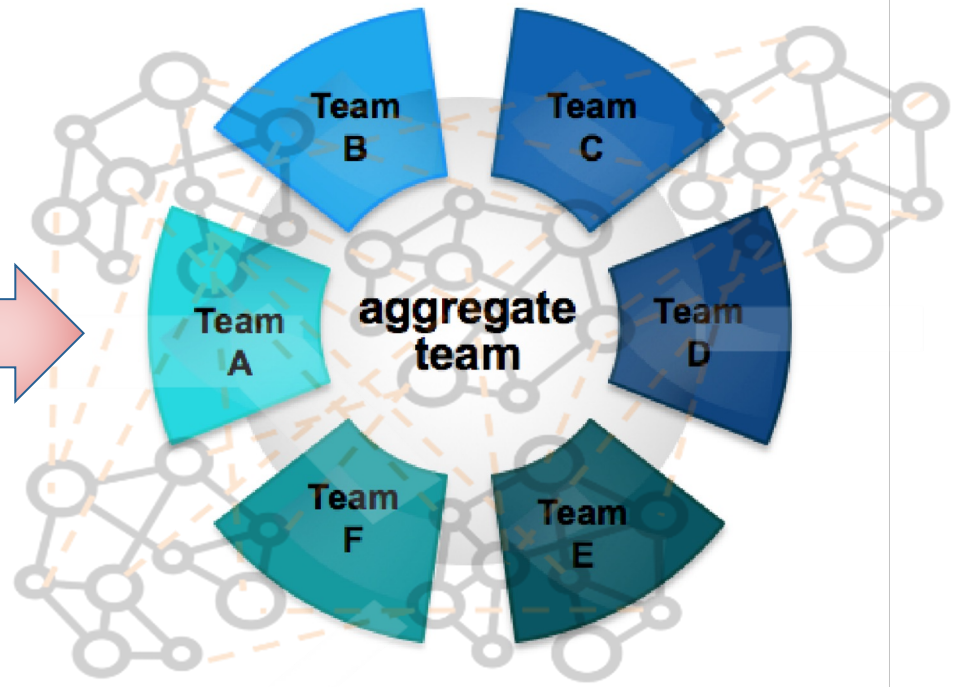
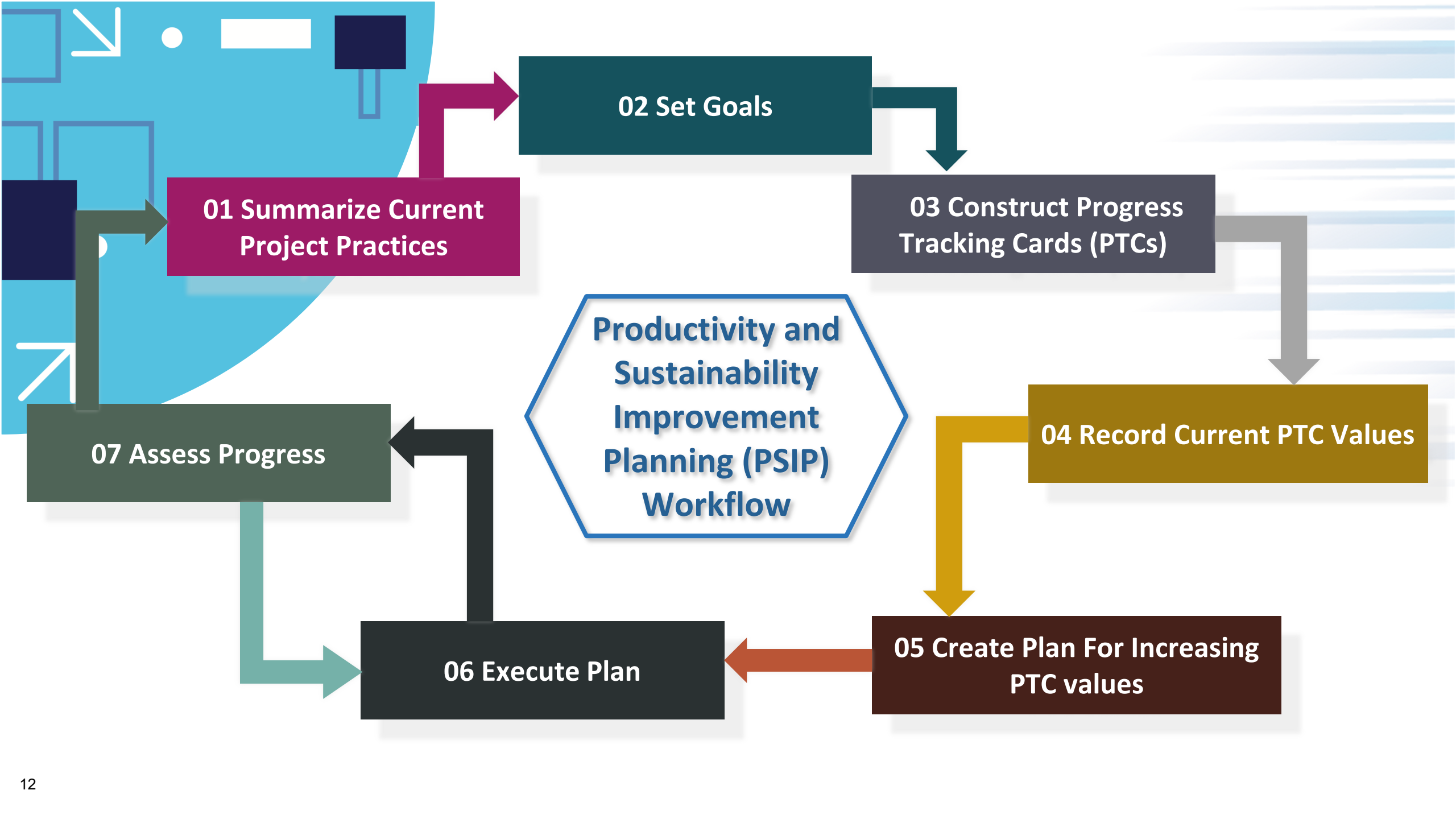
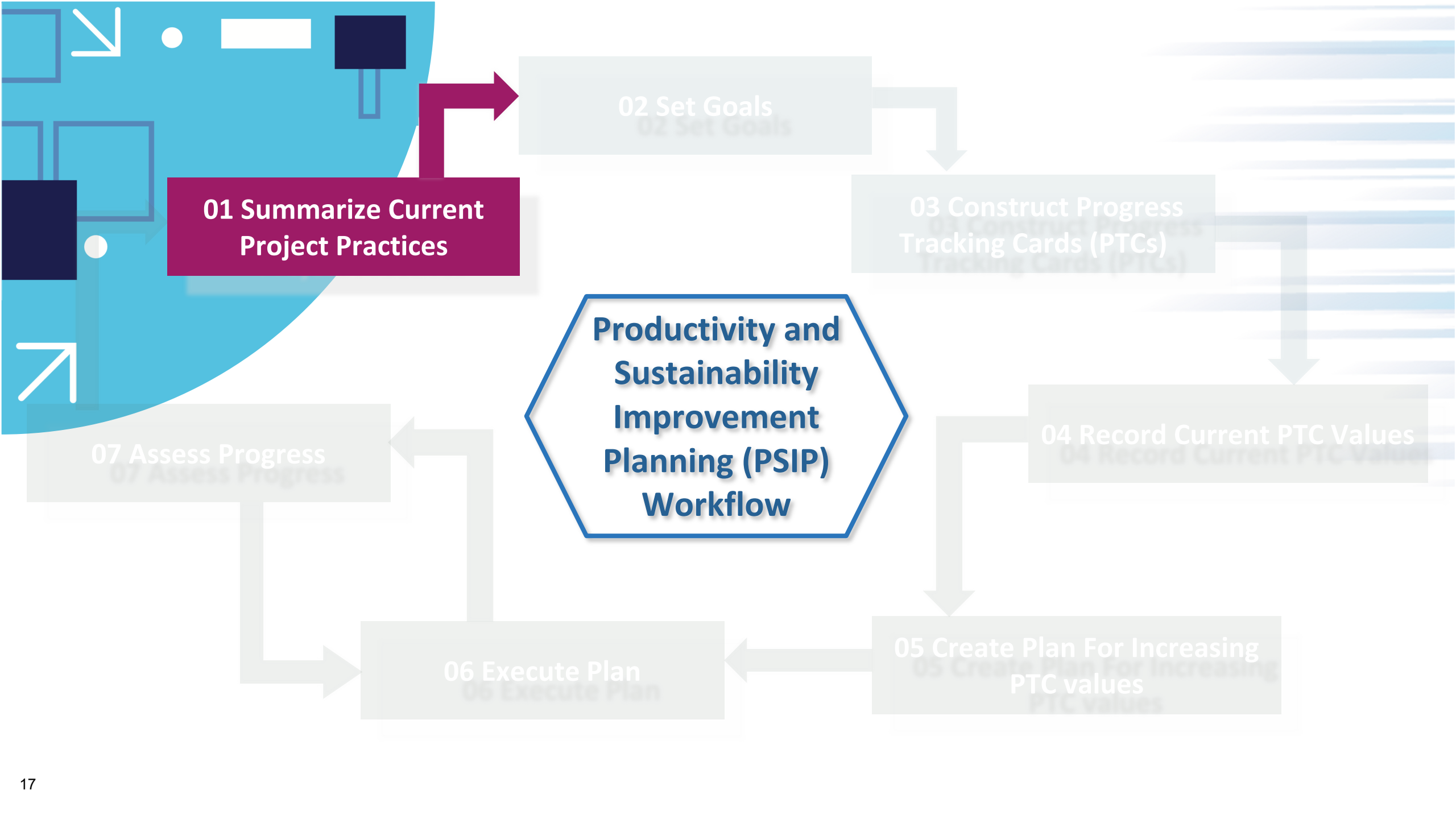
Productivity and Sustainability Improvement Planning (PSIP)

- PSIP is a lightweight workflow that can be used on its own or alongside frameworks you may currently use such as Kanban, Agile, etc.
- You *implement PSIP* by assessing your project and using Progress Tracking Cards (PTCs) to achieve quality goals.

PSIP helps software teams to **IDENTIFY** opportunities to iteratively and incrementally **IMPROVE** software team practices and processes.




Productivity and Sustainability Improvement Planning (PSIP) Workflow
01 Summarize Current Project Practices
02 Set Goals
03 Construct Progress Tracking Cards (PTCs)
04 Record Current PTC Values
05 Create Plan For Increasing PTC values
06 Execute Plan
07 Assess Progress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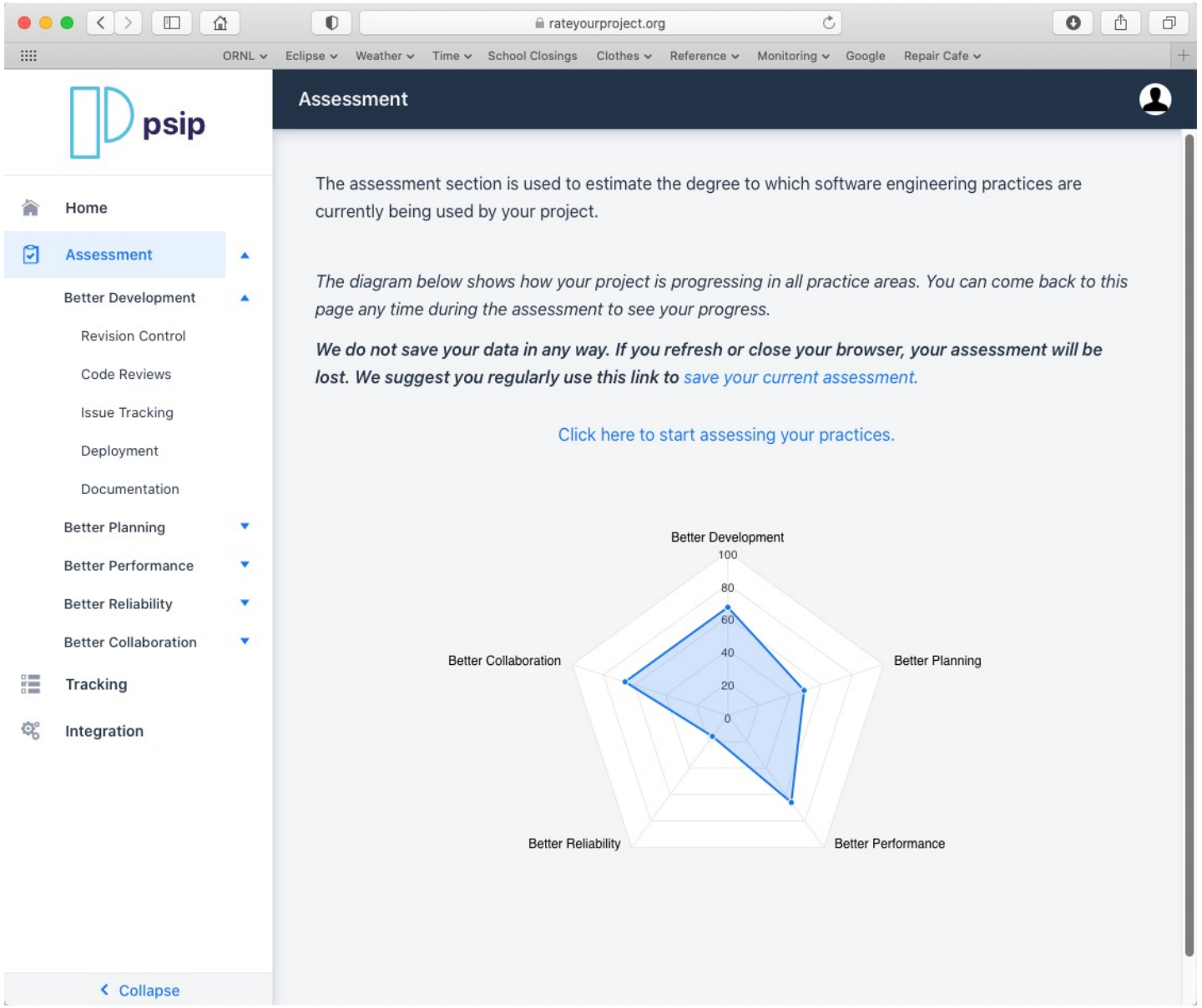
Productivity and Sustainability Improvement Planning (PSIP) Workflow

Summarize current project practices

- What practices are used on the project? Examples:
  - Process
  - Documentation
  - Coding
  - Continuous integration
- For each practice used, how would you describe the level of practice?
- Are there any practices not being used that would be of benefit?

https://rateyourproject.org



Who is using PSIP?

The HDF Group

Improvements to documentation to create reference manual, setting code style standards, transition to GitHub

TECHNISCHE UNIVERSITÄT DARMSTADT

Completed PSIP tutorial, investigating how it can be used in academic context

ALPINE/ZFP

Create a VTK-m filter for APLINE in situ algorithm users

OAK RIDGE National Laboratory

Using a more detailed version for internal project assessment

Sandia National Laboratories

Using internally for updating version control systems, updating documentation to support better onboarding

Next Steps

- PSIP process: bssw.io/psip
- Self-assessment tool: rateyourproject.org
- Project tracking card repository: github.com/bssw-psip/ptc-catalog
- Ask how your team can improve practices at your next group meeting!

License and acknowledgements

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