

The Path to DevOps

From: ERIK DÖRNENBURG, «The Path to DevOps»,
IEEE Software, Sep/Oct 2018

© Marco Torchiano, 2018



Licensing Note






This work is licensed under the Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International License.

To view a copy of this license, visit <http://creativecommons.org/licenses/by-nc-nd/4.0/>.

You are free: to copy, distribute, display, and perform the work

Under the following conditions:

-  **Attribution.** You must attribute the work in the manner specified by the author or licensor.
-  **Non-commercial.** You may not use this work for commercial purposes.
- No Derivative Works.** You may not alter, transform, or build upon this work.
-  For any reuse or distribution, you must make clear to others the license terms of this work.
 - Any of these conditions can be waived if you get permission from the copyright holder.

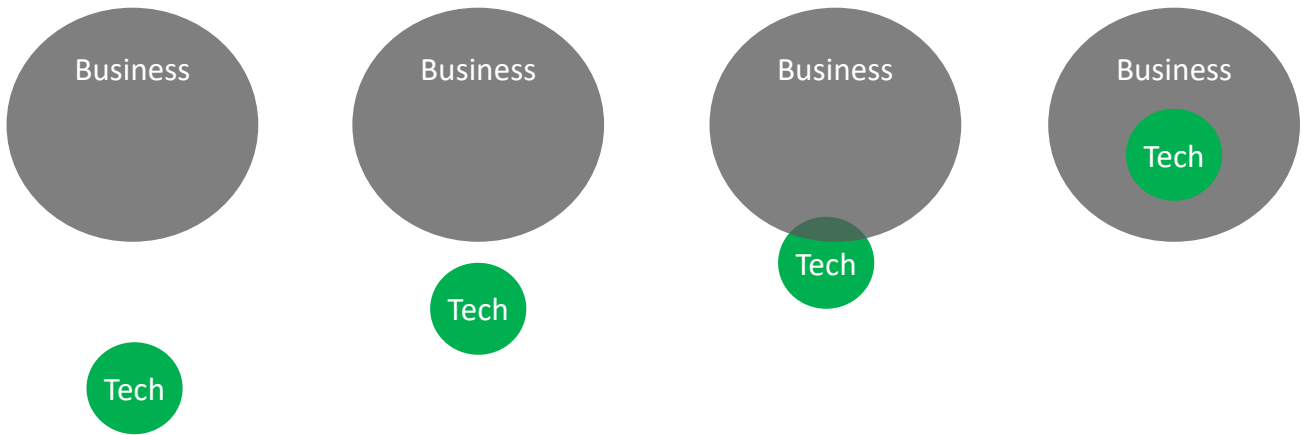
Your fair use and other rights are in no way affected by the above.

Supporting role
(1960-1970)

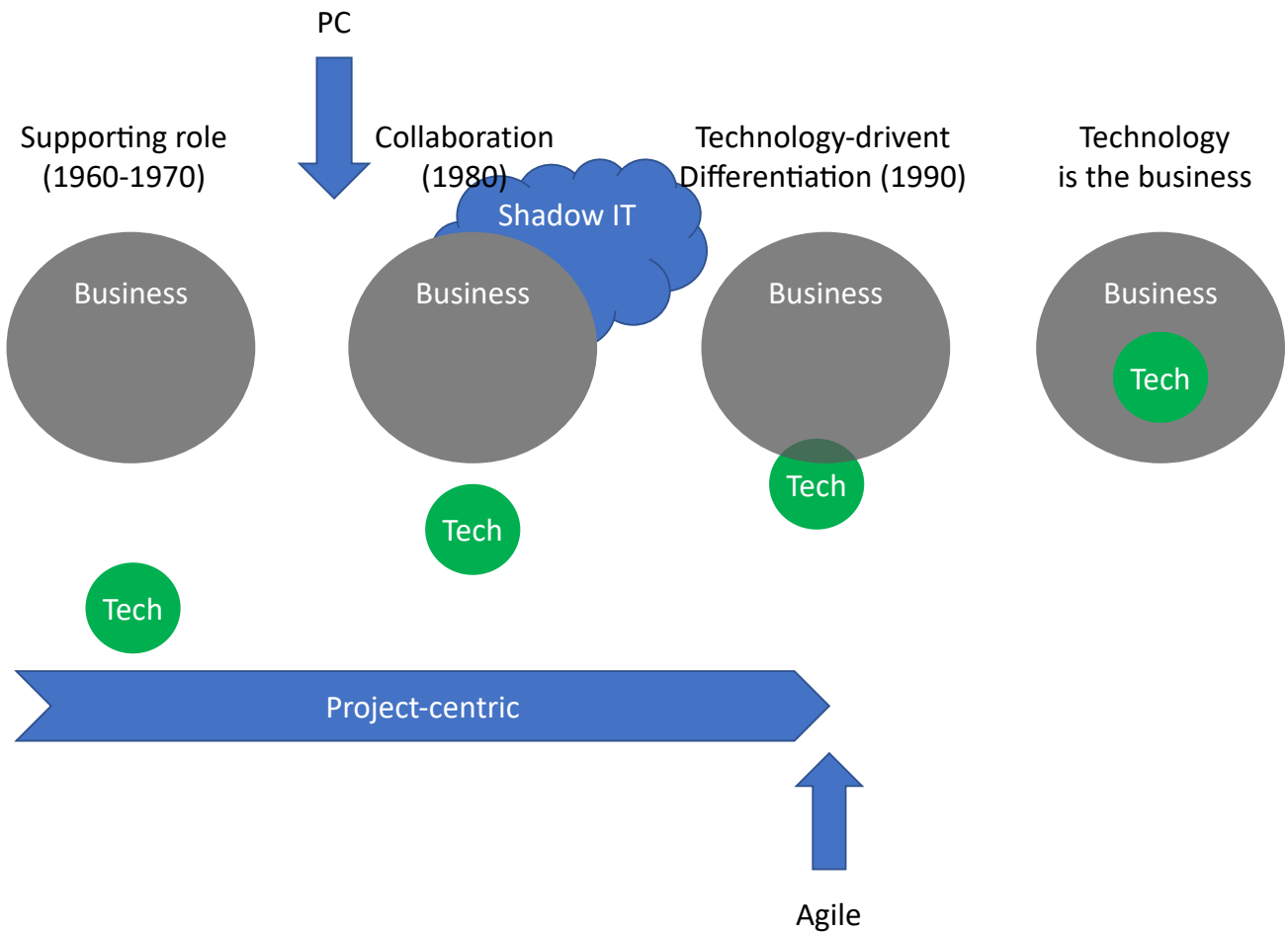
Collaboration
(1980)

Technology-driven
Differentiation (1990)

Technology
is the business



Adapted from: ERIK DÖRNENBURG, «The Path to DevOps», IEEE Software, Sep/Oct 2018 - Copyright © 2018 IEEE



Agile manifesto - Values

- Individuals and interactions
 - over processes and tools
- Working software
 - over comprehensive documentation
- Customer collaboration
 - over contract negotiation
- Responding to change
 - over following a plan

Agile Manifesto- Principles

- Our highest priority is to satisfy the customer through early and continuous delivery of valuable software.
- Welcome changing requirements, even late in development. Agile processes harness change for the customer's competitive advantage.
- Deliver working software frequently, from a couple of weeks to a couple of months, with a preference to the shorter timescale.
- Business people and developers must work together daily throughout the project.
- Build projects around motivated individuals. Give them the environment and support they need, and trust them to get the job done.
- The most efficient and effective method of conveying information to and within a development team is face-to-face conversation.

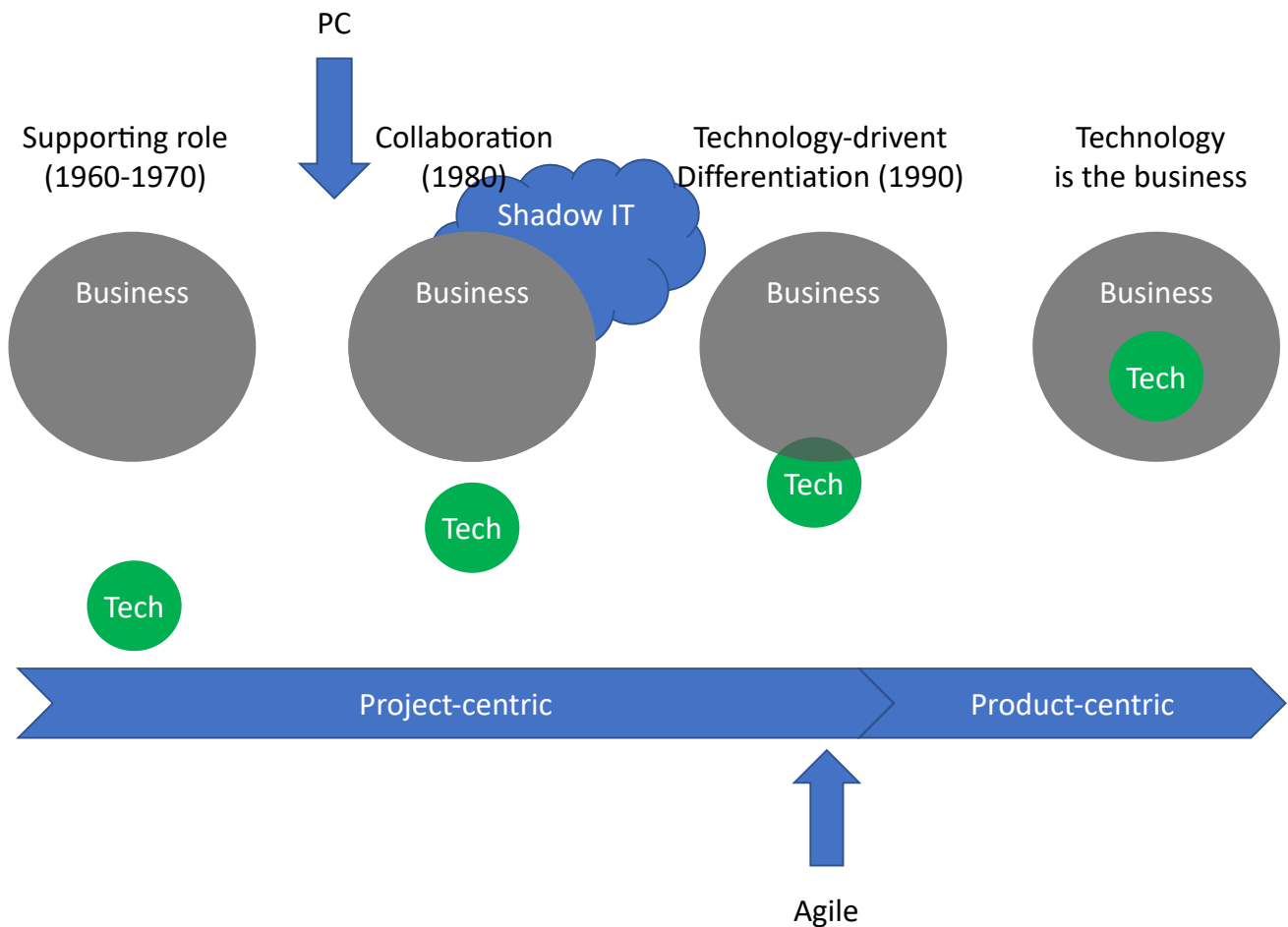
Agile Manifesto- Principles

- Working software is the primary measure of progress.
- Agile processes promote sustainable development. The sponsors, developers, and users should be able to maintain a constant pace indefinitely.
- Continuous attention to technical excellence and good design enhances agility.
- Simplicity - the art of maximizing the amount of work not done- is essential.
- The best architectures, requirements, and designs emerge from self-organizing teams.
- At regular intervals, the team reflects on how to become more effective, then tunes and adjusts its behavior accordingly.

Cycle Time

«Never underestimate the bandwidth of a station wagon loaded with tape»

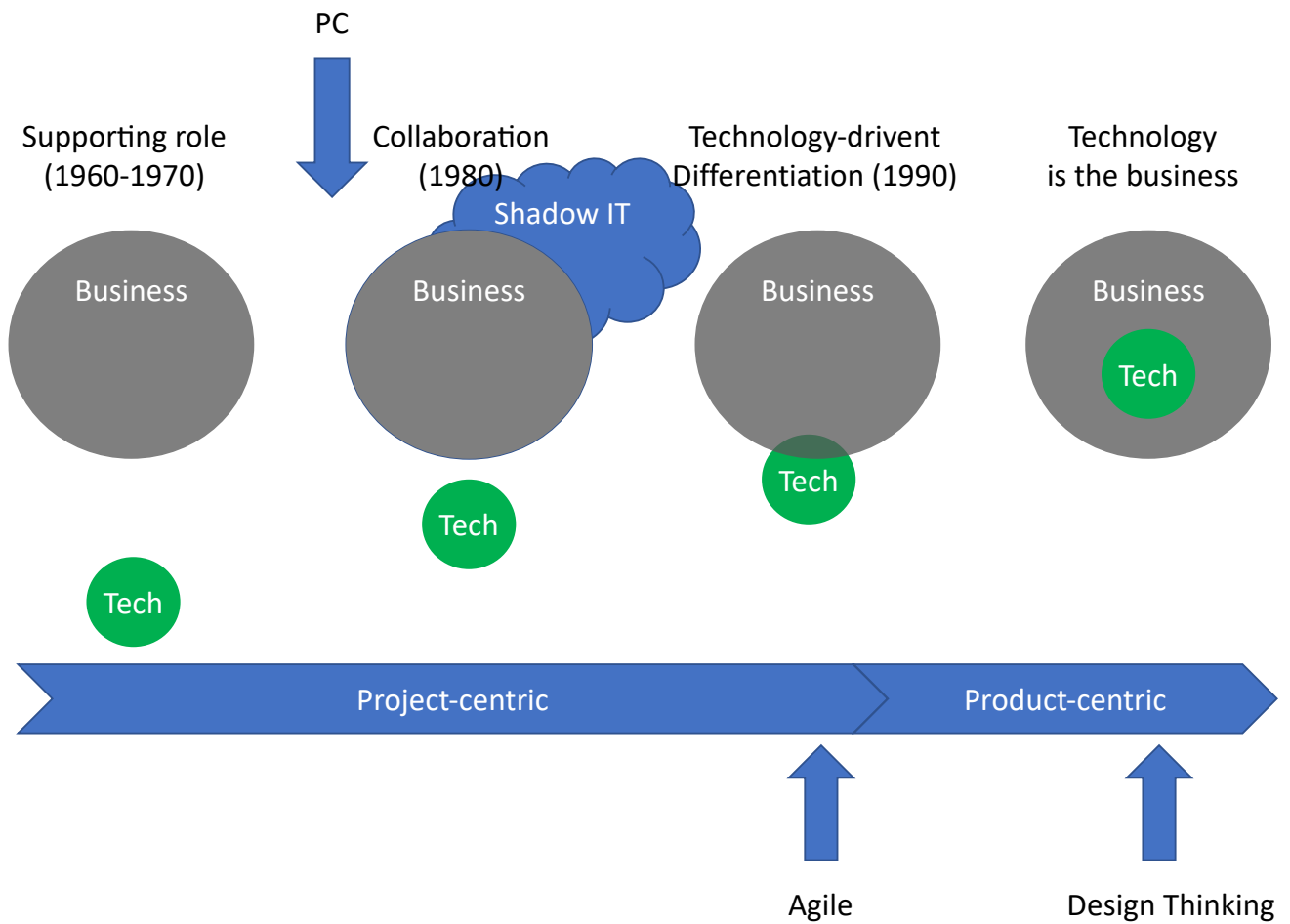
- Cycle time but also reliability



DevOps

Development + Operations

«You build it you run it»



DesignOps

User eXperience **Design** +
Development + **Operations**