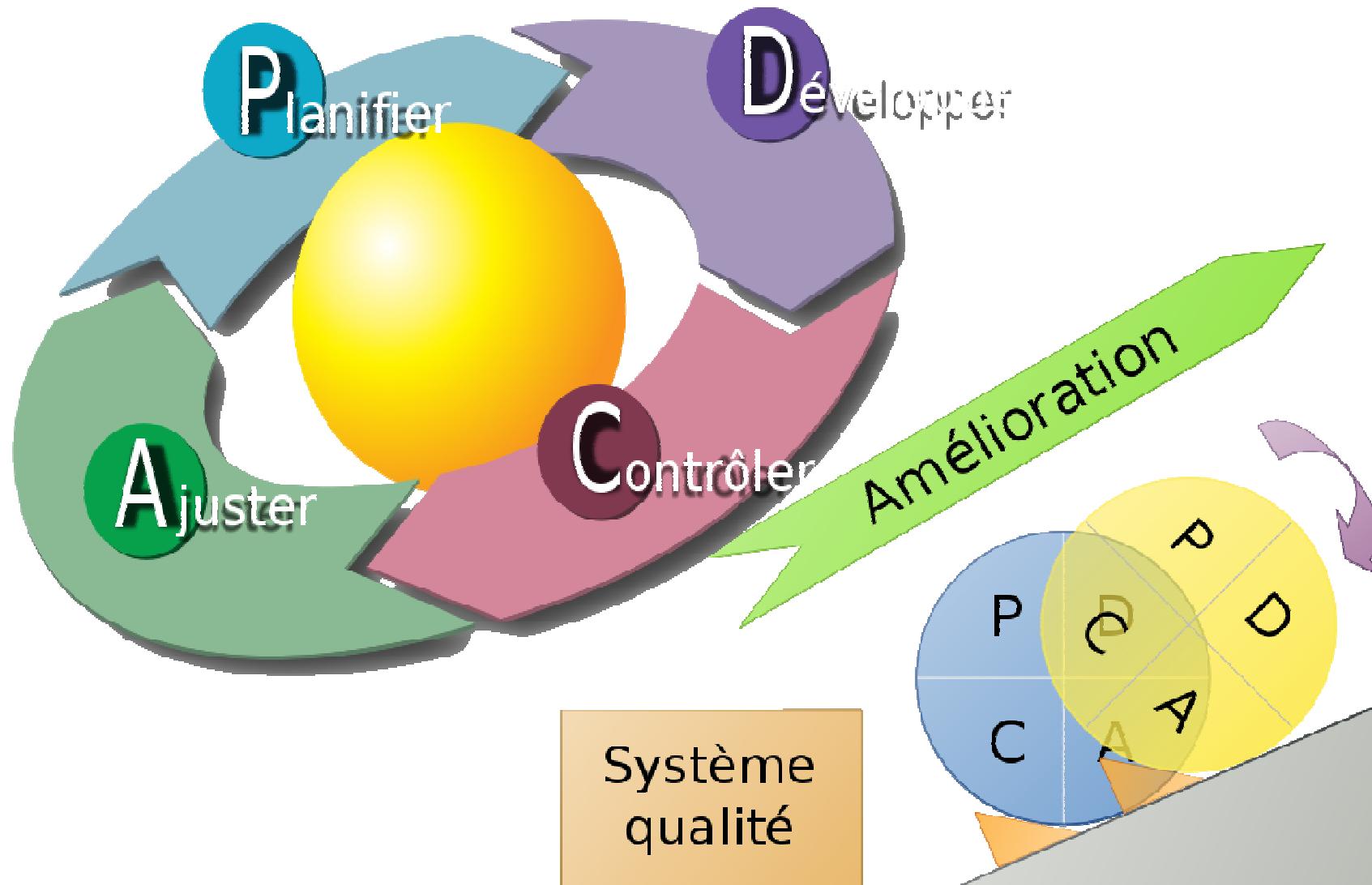
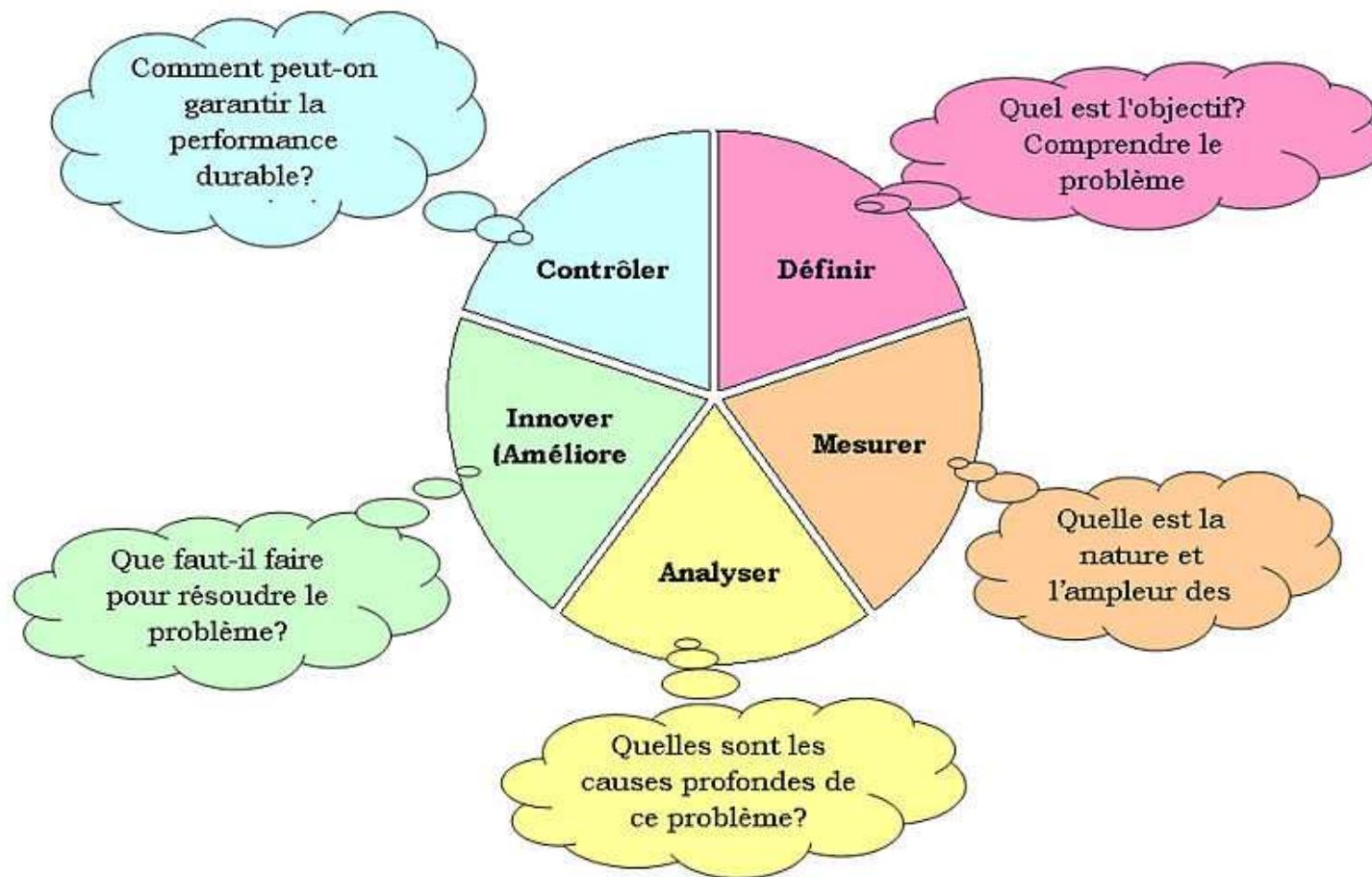


# La roue de Deming ou méthode de PDCA

# Roue de Deming



# DMAIC



**Définir** : Voix du client, SIPOC (Supplier Input Process Output Customer, cartographie des processus)

**Mesurer** : Analyse de systèmes de mesure (Gage R&R, linéarité, diagrammes d'Ishikawa)

**Analyser** : Cartographie détaillée des processus, tests d'hypothèses (ANOVA,  $\chi^2$ , tests de variances, plans d'expérience)

**Améliorer** : Plans d'expériences, AMDEC, poka yoke

**Contrôler**: Plans d'expérience, MSP

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## Building a Protocol Expressway: The Case of Mayo Clinic Cancer Center

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### Abstract

**Purpose** Inconsistencies and errors resulting from non  
with redundancies, rework, and excess workload, lead **Results** Using the Define, Measure, Analyze, Improve, Control (DMAIC) framework  
clinical trial protocol development. This results in diss infused with Lean waste-reduction methodologies, areas were identified for  
investigators, and staff and restricts the availability o improvement, including enhancing first-time quality and processing new studies on a  
patients.

**Methods** A team of experts from Mayo Clinic formed, including Protocol Development Unit staff and management from the three Mayo Clinic campuses (Florida, Minnesota, and Arizona), a systems and procedures analyst, a quality office analyst, and two physician members to address the identified deficiencies. The current-state process was intensively reviewed, and improvement steps were taken to accelerate the development and approval of cancer-related clinical trials. The primary goal was to decrease the time from receipt of a new protocol through submission to an approving authority, such as the National Cancer Institute or institutional review board.

**Conclusion** DMAIC framework combined with Lean methodologies is an effective tool to structure the definition, planning, analysis, and implementation of significant process changes.