VERDE - validado
AZUL - ajustadas ou adicionadas
VERMELHO - refutadas

P1. A TEAM CULTURE BASED ON RESPONSIBILITY/OWNERSHIP SHARING ENABLES COLLABORATION

Categoric relationship			Team		
			responsibility/ownership sharing		
			full sharing	medium sharing	minimal or null sharing
Collaboration	frequency	daily	h1.1	h1.2	
		eventual	h1.4	h1.5	
	quality	high	h1.7	h1.8	
		low	h1.10	h1.11	

• H1.1 (h1.1 and h1.4): A team culture based on the full sharing of responsibilities makes it possible to move from eventual to daily collaboration between team members.
• H1.2 (h1.7 and h1.10): A team culture based on the full sharing of responsibilities makes it possible to move from low-quality to high-quality collaboration between team members.
• H1.3 (h1.2 and h1.5): A team culture based on the medium sharing of responsibilities makes it possible to move from eventual collaboration between team members to daily collaboration.
• H1.4 (h1.8 and h1.11): A team culture based on the medium sharing of responsibilities makes it possible to move from low-quality collaboration between team members to high-quality collaboration.

P2. PROMOTING COLLABORATION REDUCES ORGANIZATIONAL SILOS/CONFLICTS

Categoric relationship	Silo

			type	
			organizational	cultural
Collaboration	frequency	daily	H2.1	
		eventual	H2.2	
	quality	high	H2.3	
		low	H2.4	

- H2.1 Teams with daily collaboration are associated with fewer organizational silos.
- H2.2 Teams with eventual collaboration are associated with organizational silos.
- H2.3 Teams with high-quality collaboration are associated with fewer organizational silos.
- H2.4 Teams with low-quality collaboration are associated with organizational silos.

P3. AUTOMATED APPLICATION LIFE-CYCLE MANAGEMENT IS ASSOCIATED WITH COLLABORATION. COLLABORATION IMPACTS AUTOMATED APPLICATION LIFE-CYCLE MANAGEMENT AND VICE VERSA. AUTOMATION AND COLLABORATION MUTUALLY FACILITATE THE ADOPTION OF THE OTHER, SO THEY ARE COMPLEMENTARY

Categoric relationship			Automation	
			type	
			Automated application life-cycle management	Automated infrastructure management
Collaboration	frequency	daily	H3.1-H3.1’	
		eventual		
	quality	high	H3.3-H3.3’	
		low		

• H3.1 Teams using automated application life-cycle management are associated with daily collaboration
• H3.1’ Teams with daily collaboration are associated with automated application life-cycle management
• H3.3 Teams using automated application life-cycle management are associated with high collaboration
• H3.3’ Teams with high collaboration are associated with automated application life-cycle management

P4. A TEAM CULTURE BASED ON KNOWLEDGE SHARING ENABLES COLLABORATION

Categoric relationship	Team
	knowledge sharing

			full sharing	medium sharing	minimal or null sharing
Collaboration	frequency	daily	H4.1	H4.2	H4.3
		eventual	H4.4	H4.5	H4.6
	quality	high	H4.7	H4.8	H4.9
		low	H4.10	H4.11	H4.12

• H4.1: A team culture based on full knowledge sharing are associated with daily collaboration between team members
• H4.2: A team culture based on medium knowledge sharing are associated with daily collaboration between team members
• H4.4: A team culture based on full knowledge sharing are associated with eventual collaboration between team members
• H4.5: A team culture based on medium knowledge sharing are associated with eventual collaboration between team members
• H4.6: A team culture based on minimal knowledge sharing are associated with eventual collaboration between team members
• H4.7: A team culture based on full knowledge sharing are associated with high quality collaboration between team members
• H4.8: A team culture based on medium knowledge sharing are associated with high quality collaboration between team members
• H4.11: A team culture based on medium knowledge sharing are associated with low quality collaboration between team members
• H4.12: A team culture based on minimal knowledge sharing are associated with low quality collaboration between team members

P5. IF A TEAM IS CHARACTERIZED BY CROSS-FUNCTIONALITY/SKILLS THIS WILL INCREASE COLLABORATION

Categoric relationship			Team	
			cross-functionality/skills	
			true	false
Collaboration	frequency	daily	H5.1	
		eventual	H5.2	
	quality	high	H5.3	
		low	H5.4	

- H5.1 Multidisciplinary/poly-skilled teams (i.e., teams with all the necessary skills such as development, infrastructure, etc.) are associated with a daily collaboration between team members
- H5.2 Multidisciplinary/poly-skilled teams (i.e., teams with all the necessary skills such as development, infrastructure, etc.) are associated with an eventual collaboration between team members
- H5.3 Multidisciplinary/poly-skilled teams (i.e., teams with all the necessary skills such as development, infrastructure, etc.) are associated with a high collaboration between team members
- H5.4 Multidisciplinary/poly-skilled teams (i.e., teams with all the necessary skills such as development, infrastructure, etc.) are associated with a low collaboration between team members

P6. COLLABORATION IS A PROPERTY OF TEAMS IN WHICH SKILLS TAKE PRECEDENCE OVER ROLES, I.E., THE ROLE DEFINITION/ATTRIBUTIONS CODE; HENCE, IF THERE ARE ALREADY SEPARATE ROLES, RESPONSIBILITIES ARE VERY CLEAR AND COLLABORATION IS NOT FOSTERED OR PROMOTED

Categoric relationship			Team	
			role definitions/attributions	
			true	false
Collaboration	frequency	daily		H6.2
		eventual	H6.3	H6.4
	quality	high		H6.6
		low	H6.7	H6.8

• H6.2: Teams where skills take precedence over roles are associated with daily collaboration
• H6.3: Teams with well-defined and differentiated roles are associated with a eventual collaboration
• H6.4: Teams where skills take precedence over roles are associated with eventual collaboration
• H6.6: Teams where skills take precedence over roles are associated with high-quality collaboration
• H6.7: Teams with well-defined and differentiated roles are associated with a low-quality collaboration
• H6.8: Teams where skills take precedence over roles are associated with low-quality collaboration

P7. A COLLABORATION-BASED CULTURE REQUIRES ALIGNMENT OF DEV & OPS GOALS

Categoric relationship			Team	
			alignment of dev & ops	
			Local optimization	product thinking
Collaboration	frequency	daily		H7.2
		eventual	H7.3	H7.4
	quality	high		H7.6
		low	H7.7	

- H7.2: Teams aligned with product thinking are associated with daily collaboration
- H7.3: Teams aligned with local optimization are associated with eventual collaboration
- H7.4: Teams aligned with product thinking are associated with eventual collaboration
- H7.6: Teams aligned with product thinking are associated with high-quality collaboration
- H7.7: Teams aligned with local optimization are associated with low-quality collaboration

P8. A TEAM CULTURE BASED ON METRICS/VISIBILITY/FEEDBACK ENABLES COLLABORATION

Categoric relationship			Management	
			metrics/visibility/feedback	
			true	false
Collaboration	frequency	daily	H8.1	
		eventual		
	quality	high	H8.3	
		low		

- H8.1: Teams with a culture based on metrics/visibility/feedback are associated with daily

collaboration.
• H8.3: Teams with a culture based on metrics/visibility/feedback are associated with high-quality collaboration.

P9. RESPONSIBILITY/OWNERSHIP SHARING IS A PROPERTY OF CROSS-FUNCTIONALITY/SKILLS TEAMS

Categoric relationship			Team	
			cross functionality/skills	
			true	false
Team	responsibility/ ownership sharing	full sharing	H9.1	
		medium sharing	H9.3	H9.4
		Minimal or null sharing	H9.5	H9.6

• H9.1: Teams characterized by cross-functionality/skills are associated with full responsibility/ownership sharing.
• H9.3: Teams characterized by cross-functionality/skills are associated with medium responsibility/ownership sharing.
• H9.4: Teams not characterized by cross-functionality/skills are associated with medium responsibility/ownership sharing.
• H9.5: Teams characterized by cross-functionality/skills are associated with minimal or null responsibility/ownership sharing.
• H9.6: Teams not characterized by cross-functionality/skills are associated with minimal or null responsibility/ownership sharing.

P10. RESPONSIBILITY/OWNERSHIP SHARING REDUCES ORGANIZATIONAL SILOS/CONFLICTS

Categoric relationship			Silo	
			type	
			organizational	cultural
Team	responsibility/	full sharing		

	ownership sharing	medium sharing	H10.2	
		Minimal or null sharing	H10.3	

• H10.2: Teams characterized by medium responsibility/ownership sharing are associated with organizational silos.
• H10.3: Teams characterized by minimal or null responsibility/ownership sharing are associated with organizational silos.

P12. RESPONSIBILITY/OWNERSHIP SHARING IS A PROPERTY OF TEAM SELF-ORGANIZATION AUTONOMY

Categoric relationship			Team	
			Autonomy	
			self organization	dependent
Team	responsibility/ ownership sharing	full sharing	H12.1	
		medium sharing	H12.2	
		Minimal or null sharing		

• H12.1: Teams characterized by self-organization autonomy are associated with full responsibility/ownership sharing.
• H12.2: Teams characterized by self-organization autonomy are associated with medium responsibility/ownership sharing.

P13. A TEAM CULTURE BASED ON RESPONSIBILITY/OWNERSHIP SHARING ENABLES COMMUNICATION

Categoric relationship	Communication	
	type	
	poor/ rare	frequent

team	responsibility/ ownership sharing	full sharing		H13.2
		medium sharing	H13.3	H13.4
		Minimal or null sharing	H13.5	

• H13.2: Teams characterized by full responsibility/ownership sharing are associated with frequent communication.
• H13.3: Teams characterized by medium responsibility/ownership sharing are associated with poor/rare communication.
(Possible if boundaries are unclear.)
• H13.4: Teams characterized by medium responsibility/ownership sharing are associated with frequent communication.
• H13.5: Teams characterized by minimal or null responsibility/ownership sharing are associated with poor/rare communication.

P14. RESPONSIBILITY/OWNERSHIP SHARING IS ASSOCIATED WITH THE TRANSFER OF WORK BETWEEN TEAMS. IF THERE IS NO SHARED RESPONSIBILITY, THERE IS NECESSARILY A TRANSFER OF WORK BETWEEN DEVELOPMENT TO PRODUCTION AND OPERATION TEAMS (AND VICE VERSA)

Categoric relationship			Team	
			transfer of work	
			true	false
Team	responsibility/ ownership sharing	full sharing	H14.1 - H14.1’	
		medium sharing	H14.2 - H14.2’	
		Minimal or null sharing	H14.3 - H14.3’	

• H14.1: Teams characterized by full responsibility/ownership sharing are associated with the absence of work transfer between teams.
• H14.2: Teams characterized by medium responsibility/ownership sharing are associated with the absence of work transfer between teams.
• H14.3: Teams characterized by minimal or null responsibility/ownership sharing are associated with the presence of work transfer between teams.
• H14.1': The absence of work transfer between teams is associated with teams characterized

by full responsibility/ownership sharing.
- H14.2': The absence of work transfer between teams is associated with teams characterized by medium responsibility/ownership sharing.
- H14.3': The presence of work transfer between teams is associated with teams characterized by minimal or null responsibility/ownership sharing.

P15. AUTOMATED INFRASTRUCTURE MANAGEMENT ENABLES RESPONSIBILITY/OWNERSHIP SHARING

Categoric relationship			Automation	
			type	
			Automated Infrastructure Management	Automated Application Life Cycle Management
Team	responsibility/ ownership sharing	full sharing	H15.1	
		medium sharing	H15.2	
		Minimal or null sharing		

- H15.1: Teams relying on automated infrastructure management are associated with full responsibility/ownership sharing.
- H15.2: Teams relying on automated infrastructure management are associated with medium responsibility/ownership sharing.

P16. AUTOMATED APPLICATION LIFE-CYCLE MANAGEMENT ENABLES RESPONSIBILITY/OWNERSHIP SHARING

Categoric relationship	Automation	
	type	
	Automated Infrastructure Management	Automated Application Life Cycle Management

Team	responsibility/ ownership sharing	full sharing		H16.1
		medium sharing		H16.2
		Minimal or null sharing		

• H16.1: Teams relying on automated application life-cycle management are associated with full responsibility/ownership sharing.
• H16.2: Teams relying on automated application life-cycle management are associated with medium responsibility/ownership sharing.

P17. SKILLS/KNOWLEDGE SHARING IS A PROPERTY OF TEAMS CHARACTERIZED BY CROSS-FUNCTIONALITY/SKILLS

Categoric relationship			Team	
			cross-functionalityskills	
			true	false
Team	skills/knowledge sharing	full sharing	H17.1	
		medium sharing	H17.2	
		Minimal or null sharing	H17.3	

• H17.1: Teams characterized by cross-functionality/skills are associated with full skills/knowledge sharing.
• H17.2: Teams characterized by cross-functionality/skills are associated with medium skills/knowledge sharing.
• H17.3: Teams characterized by cross-functionality/skills are associated with minimal or null skills/knowledge sharing.

P18. CROSS-FUNCTIONALITY/SKILLS IS A PROPERTY OF ENABLER (PLATFORM) TEAM

categoric	Team

			cross-functionality/skills	
			true	false
Team	Enabler Team	true	H18.1	
		false		

• H18.1: Teams characterized as enabler (platform) teams are associated with being cross-functional.

P19. CROSS-FUNCTIONALITY/SKILLS REDUCES ORGANIZATIONAL SILOS/CONFLICTS

Categoric relationship			Team	
			Cross-functionality/skills	
			true	false
Silo	type	organizational	H19.1	H19.2
		cultural		

• H19.1: Teams characterized by cross-functionality/skills are associated with fewer organizational silos.
• H19.2: Teams not characterized by cross-functionality/skills are associated with the presence of organizational silos.

P20. IF A TEAM IS CHARACTERIZED BY CROSS-FUNCTIONALITY/SKILLS THIS WILL INCREASE AUTOMATED APPLICATION LIFE-CYCLE MANAGEMENT

Categoric relationship			Team	
			cross-functionality/skills	
			true	false
Automation	type	Automated Infrastructure Management		
		Automated Application Life	H20.1	

		Cycle Management		

• H20.1: Teams characterized by cross-functionality/skills are associated with the use of automated application life-cycle management.

P21. ORGANIZATIONAL SILOS/CONFLICTS MAKE THE ADOPTION OF AN AUTOMATED APPLICATION LIFE-CYCLE MANAGEMENT DIFFICULT

Categoric relationship			Silo	
			type	
			true	false
Automation	type	Automated Infrastructure Management		
		Automated Application Life Cycle Management	H21.1	

• H21.1: The presence of organizational silos/conflicts is associated with difficulty in adopting automated application life-cycle management.

P22. METRICS, VISIBILITY & FEEDBACK ENABLES AUTOMATED APPLICATION LIFE-CYCLE MANAGEMENT

Categoric relationship			Management	
			metrics/visibility/feedback	
			true	false
Automation	type	Automated Infrastructure Management		
		Automated Application	H22.1	

		Life Cycle Management		

• H22.1: Teams characterized by metrics, visibility, and feedback are associated with the adoption of automated application life-cycle management.

P23. AUTOMATED APPLICATION LIFE-CYCLE MANAGEMENT ENABLES SKILLS/KNOWLEDGE SHARING

Categoric relationship			Team		
			skills/knowledge sharing		
			full sharing	medium sharing	minimal or null sharing
Automation	type	Automated Infrastructure Management			
		Automated Application Life Cycle Management	H23.1	H23.2	

• H23.1: Teams relying on automated application life-cycle management are associated with full skills/knowledge sharing.
• H23.2: Teams relying on automated application life-cycle management are associated with medium skills/knowledge sharing.

P24. ENABLER (PLATFORM) TEAM ENABLES TEAM SELF-ORGANIZATION & AUTONOMY

Categoric relationship			Team	
			Autonomy	
			self organization	dependent
Team	Horizontal Enabler	true	H24.1	
		false		

• H24.1: Teams supported by an enabler (platform) team are associated with self-organization

and autonomy.

P25. ENABLER (PLATFORM) TEAM PROVIDES PLATFORM SERVICING

Categoric relationship			Team	
			Horizontal Enabler	
			true	false
Platform	provided interface	IaC	H25.1	
		ALM Interface	H25.2	
		Automated Infrastructure Management	H25.3	
		Automated Application Life Cycle Management	H25.4	

• H25.1: Teams characterized as enabler (platform) teams are associated with providing Infrastructure as Code (IaC) platform services.
• H25.2: Teams characterized as enabler (platform) teams are associated with providing Application Life-Cycle Management (ALM) platform services.
• H25.3: Teams characterized as enabler (platform) teams are associated with providing automated infrastructure management platform services.
• H25.4: Teams characterized as enabler (platform) teams are associated with providing automated application life-cycle management platform services.

P28. ENABLER (PLATFORM) TEAMS PROVIDE AUTOMATED APPLICATION LIFE-CYCLE MANAGEMENT

categoric			Automation	
			type	
			Automated Infrastructure Management	Automated Application Life Cycle Management
team	Horizontal Enabler	true		28.1
		false		

• H28.1: Teams characterized as enabler (platform) teams are associated with providing automated application life-cycle management platform services.

P29. Platform Servicing reduce product team cognitive load

categoric			Platform	
			Platform Servicing	
			True	False
team	Cognitive Load	hight	H29.1	
		median/normal	H29.2	
		low	H29.3	

- H29.1: The presençe of a platform servicing is associated with high cognitive load on the product team.
- H29.3: The presençe of a platform servicing is associated with median/normal cognitive load on the product team.
- H29.3: The presençe of a platform servicing is associated with low cognitive load on the product team.

P30. A high quality collaboration reduces dependency, increasing team autonomy.

determinant			Collaboration		
			quality		
			hight	median	low
team	Autonomy	self organization	H31.1		

		dependent	H31.2		

H31.1 (H31.2): A high quality collaboration focused on reducing dependency is associated with an increase in team autonomy to self-organization.