The Effects of Cultural Dimensions on the Development of an ISMS Based on the ISO 27001

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Universität Hamburg
DER FORSCHUNG | DER LEHRE | DER BILDUNG

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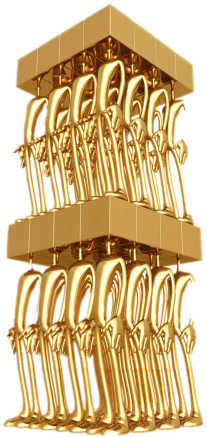
Key Definitions

- ISMS (Information Security Management System)

- ISO 27001
  - 114 controls
  - 14 groups

- Culture
  - Administration
  - Achievements



A.5 → A.5: Information security policies

A.6

A.7

A.8 → A.5.1: Management direction for information security

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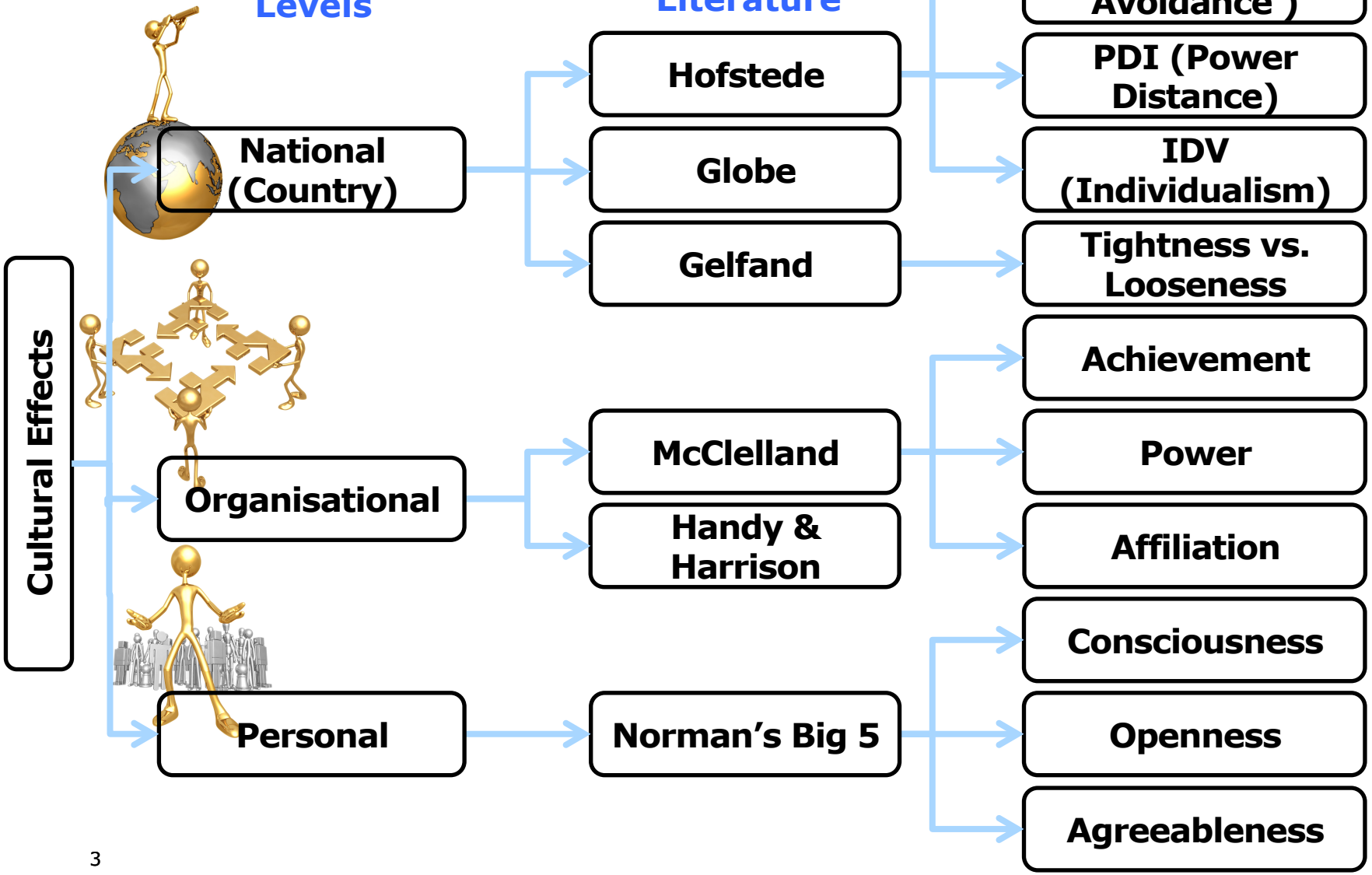
A.18

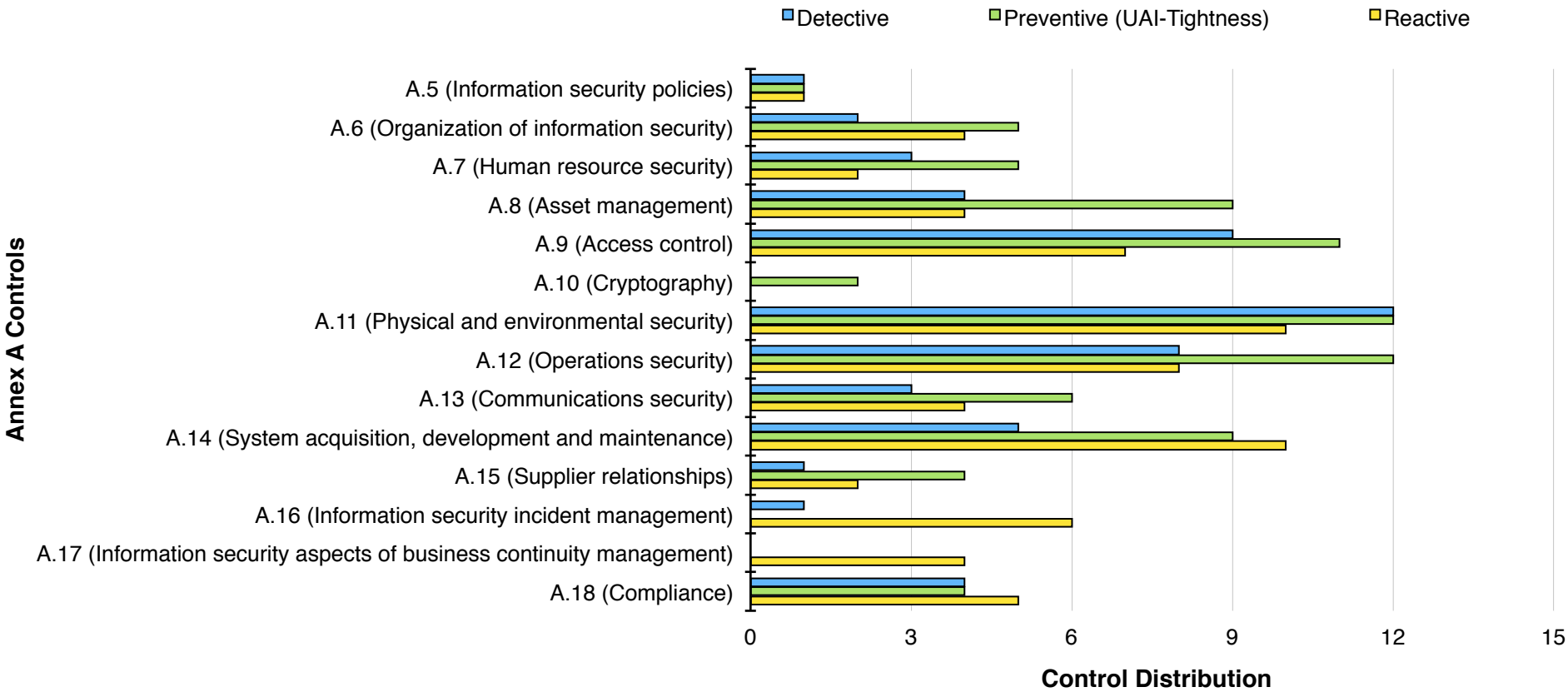
A.5.1.1: Policies for information security

A.5.1.2: Review of the policies for information security

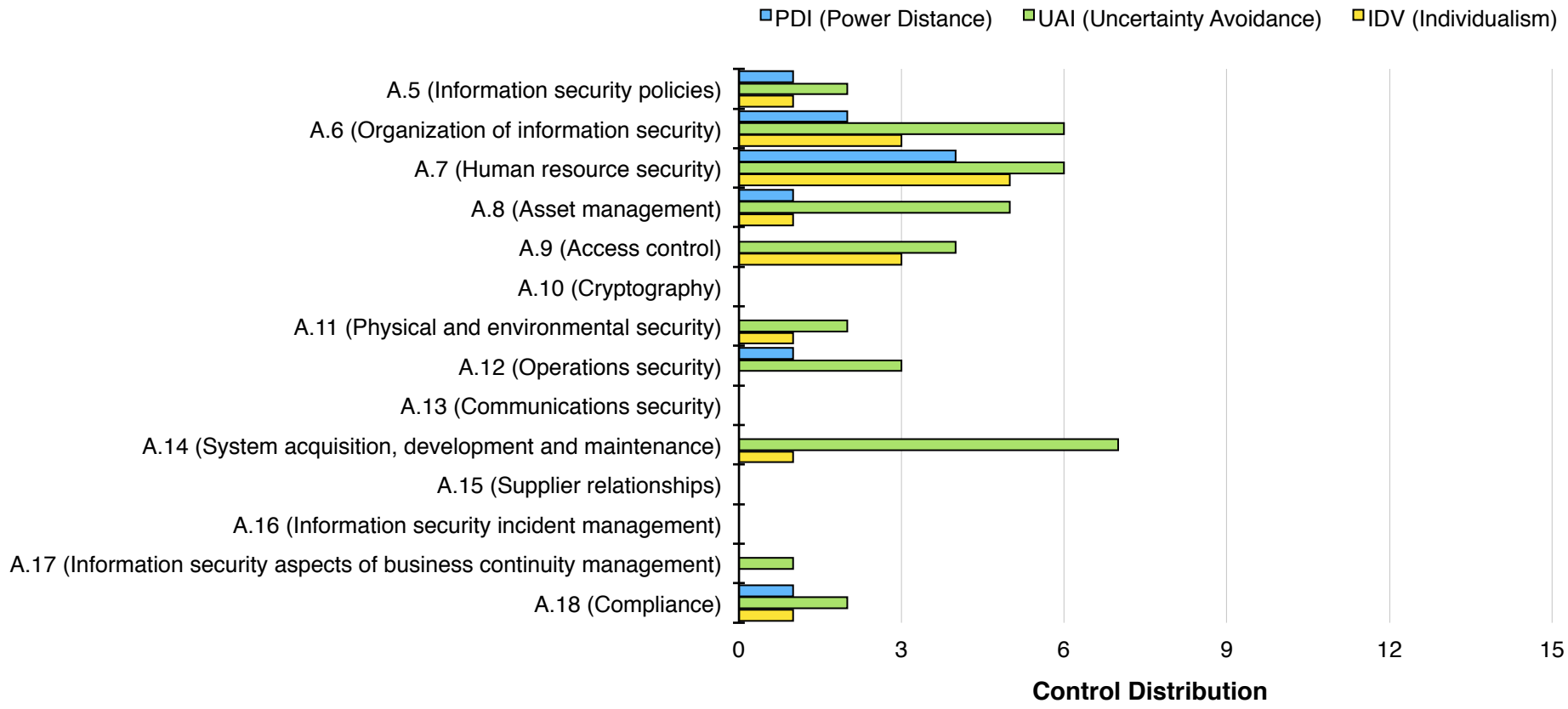
Selected cultural dimensions



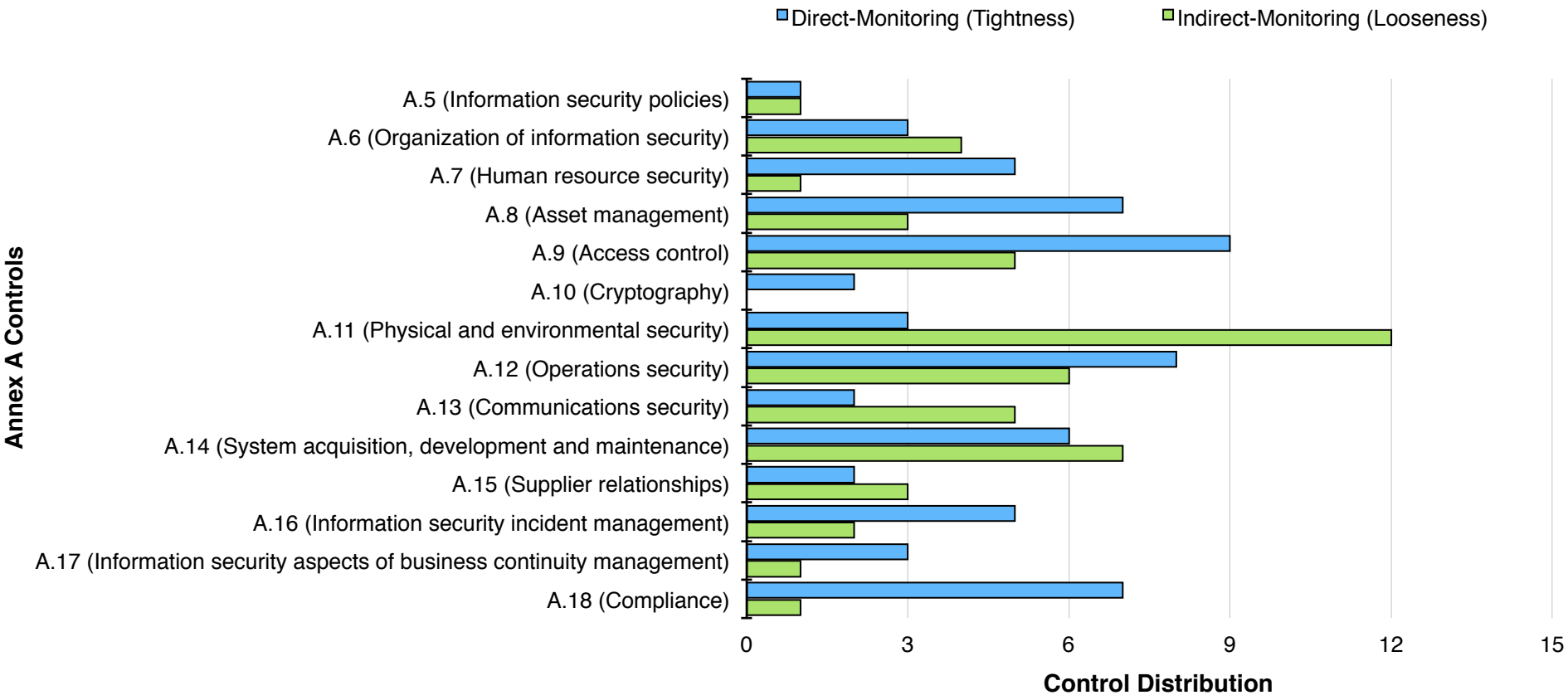
Controls high-level classification



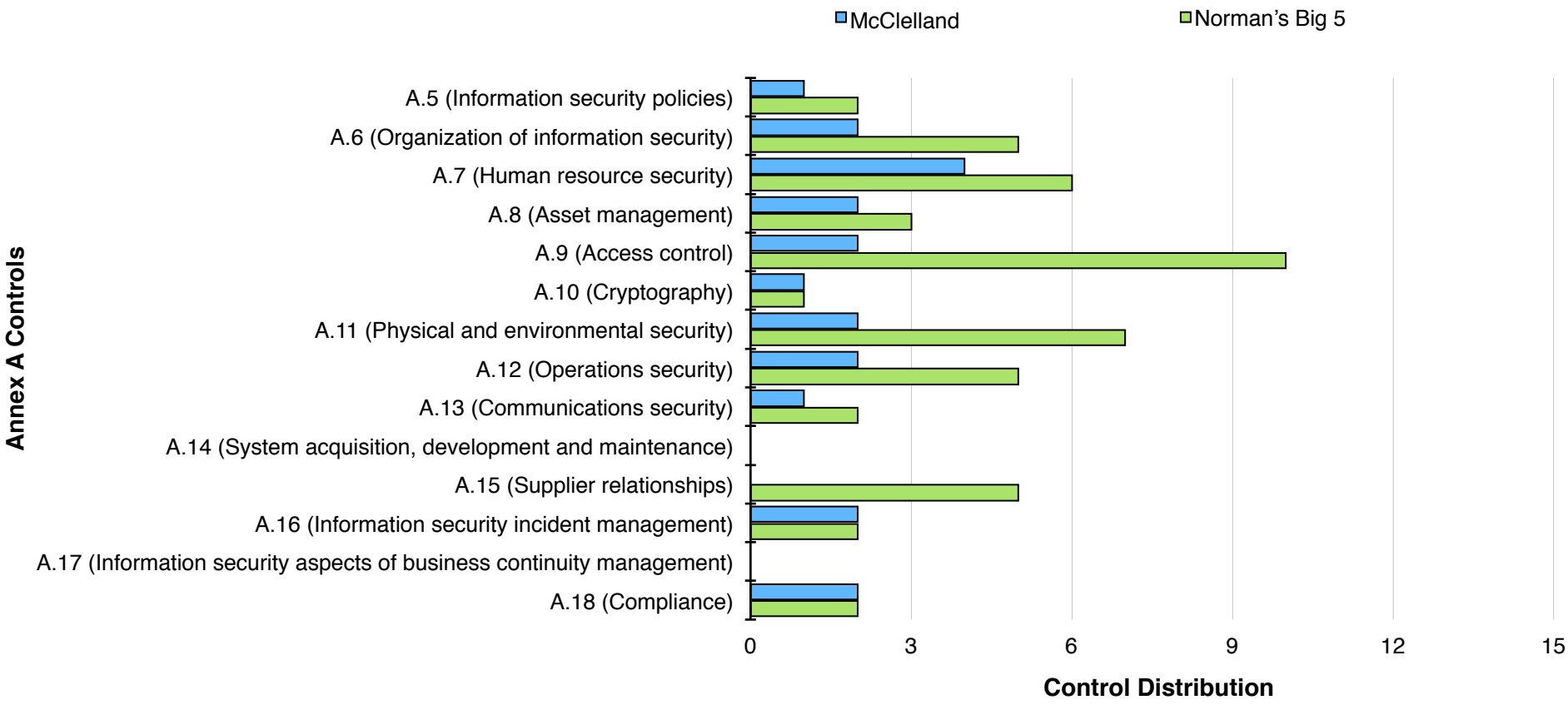
Controls classification based on the Hofstede dimensions



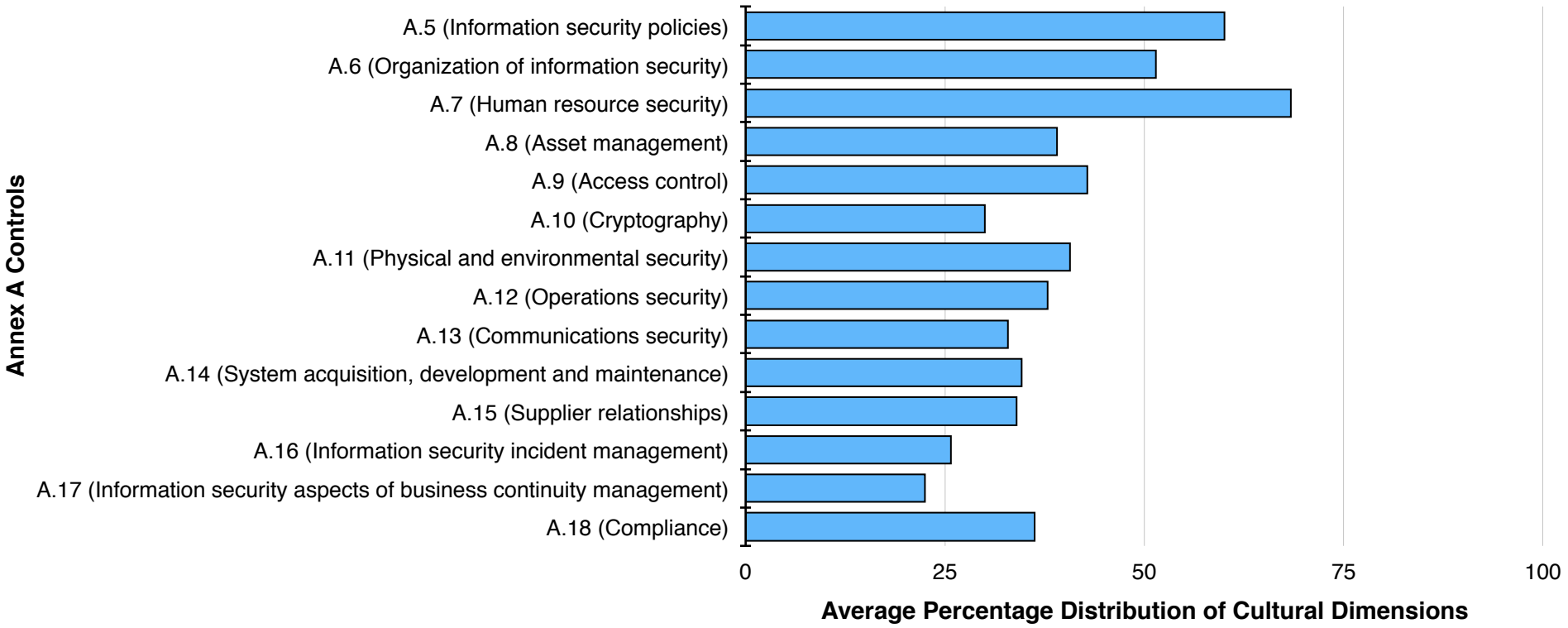
Controls classification based on the Gelfand dimensions



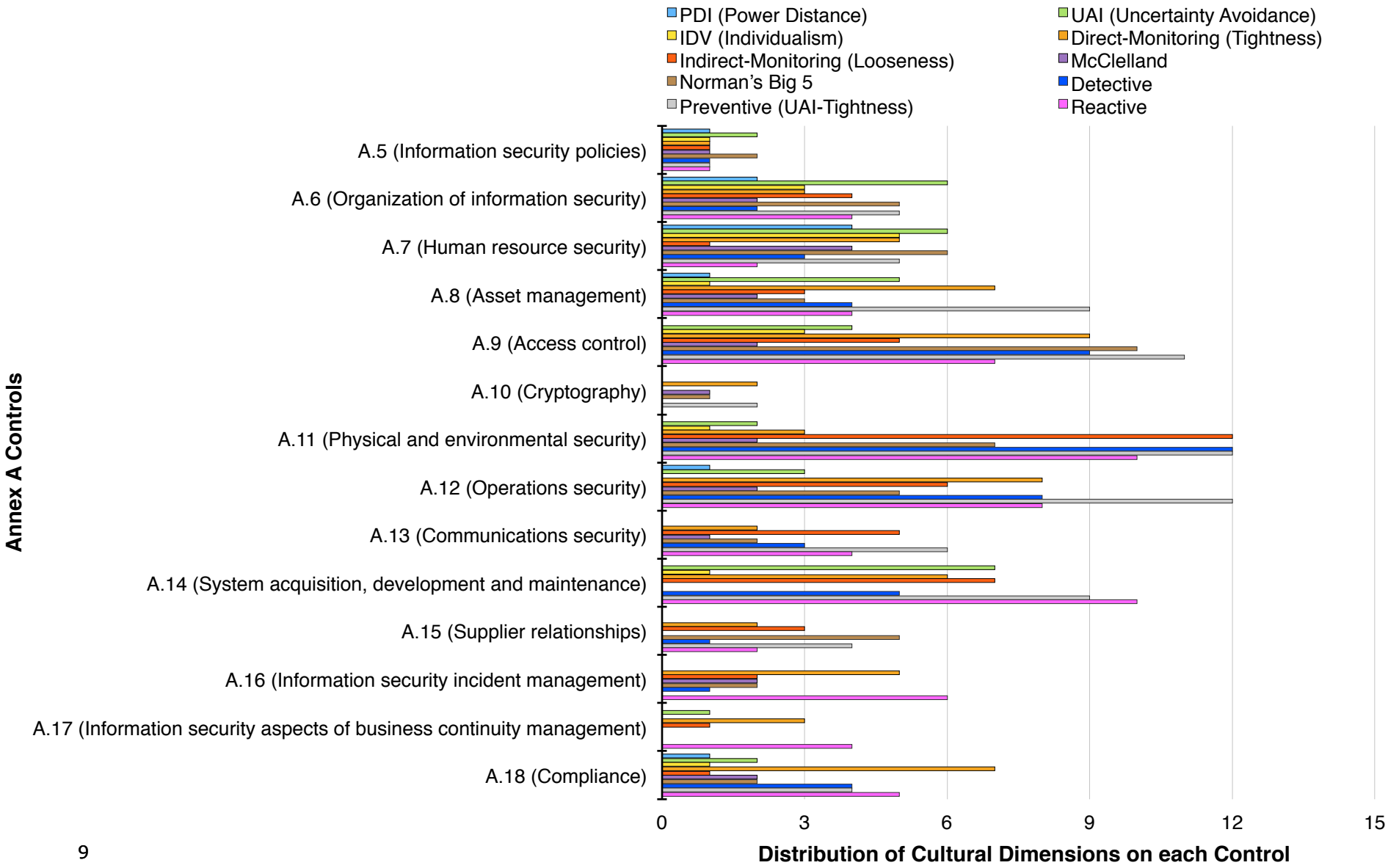
Controls classification based on the McClelland & Norman's Big 5



Relationship of the controls and cultural dimensions



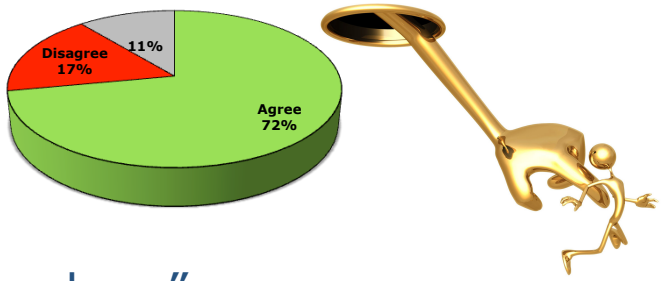
The ratio of 10 cultural dimensions in each control



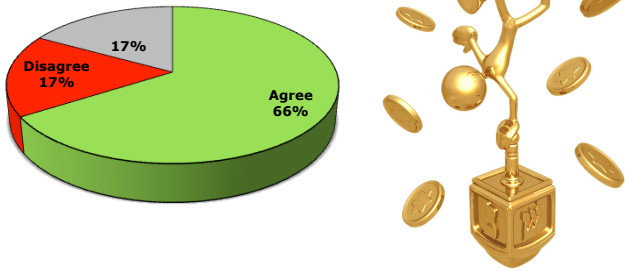
Improving ISMS standard effectiveness (prestudy)

- "Cooperative & Self-disciplined employees" (78%)

- "Centralised decision making"



- "Spending money on computer security technology"

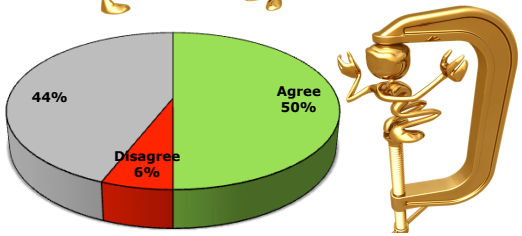


http://tinyurl.com/culturalISMS

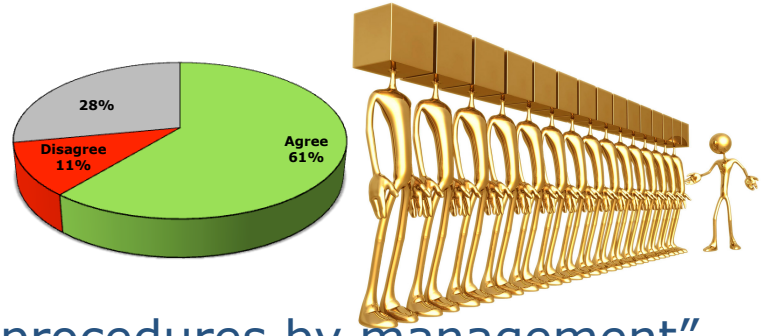
Improving ISMS standard effectiveness (prestudy)

- "Individual assessment" (67%)

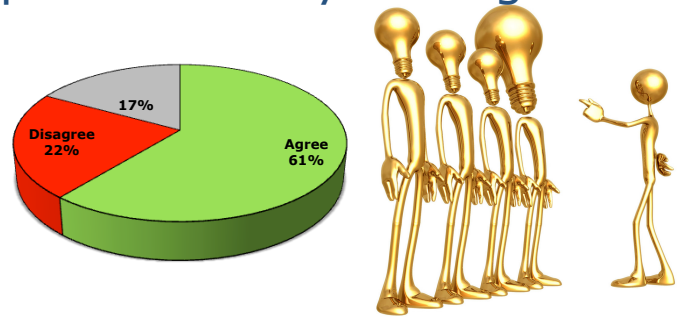
- "Strict monitoring"



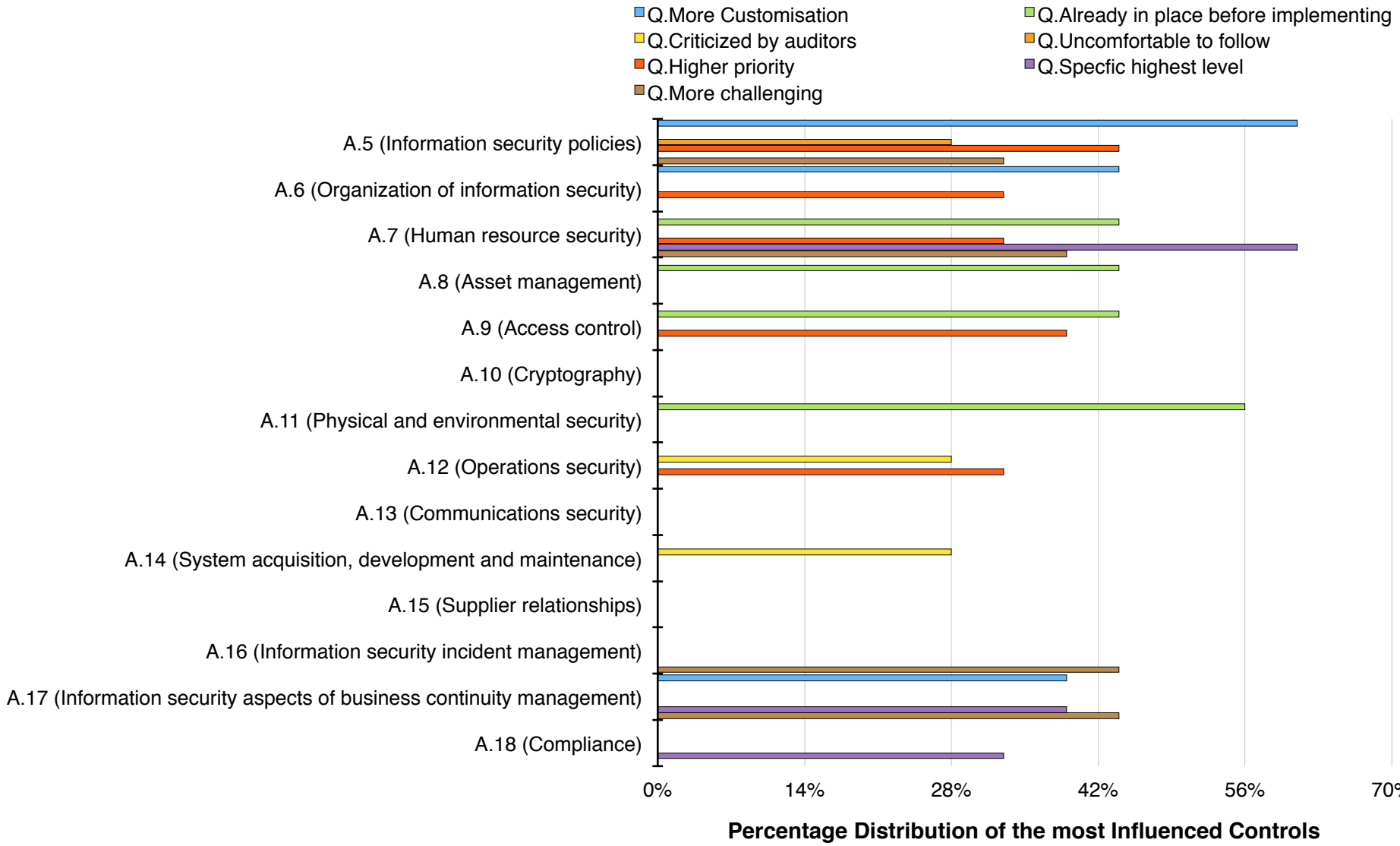
- "Strict uniform norms"



- "Established non-challenging procedures by management"



Annex A controls gained insights (prestudy)



Conclusion

- Pre-phase plan
  - Expected results & possible difficulties
  - Resource usage
  - Possible failure points
  - Organisation readiness

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