

Architectural Work Status – A Case Study of Three Finnish Business Enterprises

Eetu Niemi, MSc (econ.), Researcher

eetu.niemi@titu.jyu.fi

Project AISA (<http://www.titu.jyu.fi/aisa/>)

INFORMATION TECHNOLOGY RESEARCH INSTITUTE
UNIVERSITY OF JYVÄSKYLÄ

Outline

- Enterprise Architecture (EA)
- Study Background
- Research Process
- Generic Evaluation Model for Enterprise Architecture
- Enterprise Architecture Work Status
- Enterprise Architecture Work Challenges
- Summary and Development Suggestions
- Further Research

Enterprise Architecture (EA)

Enterprise Architecture

Business Architecture

Information Architecture

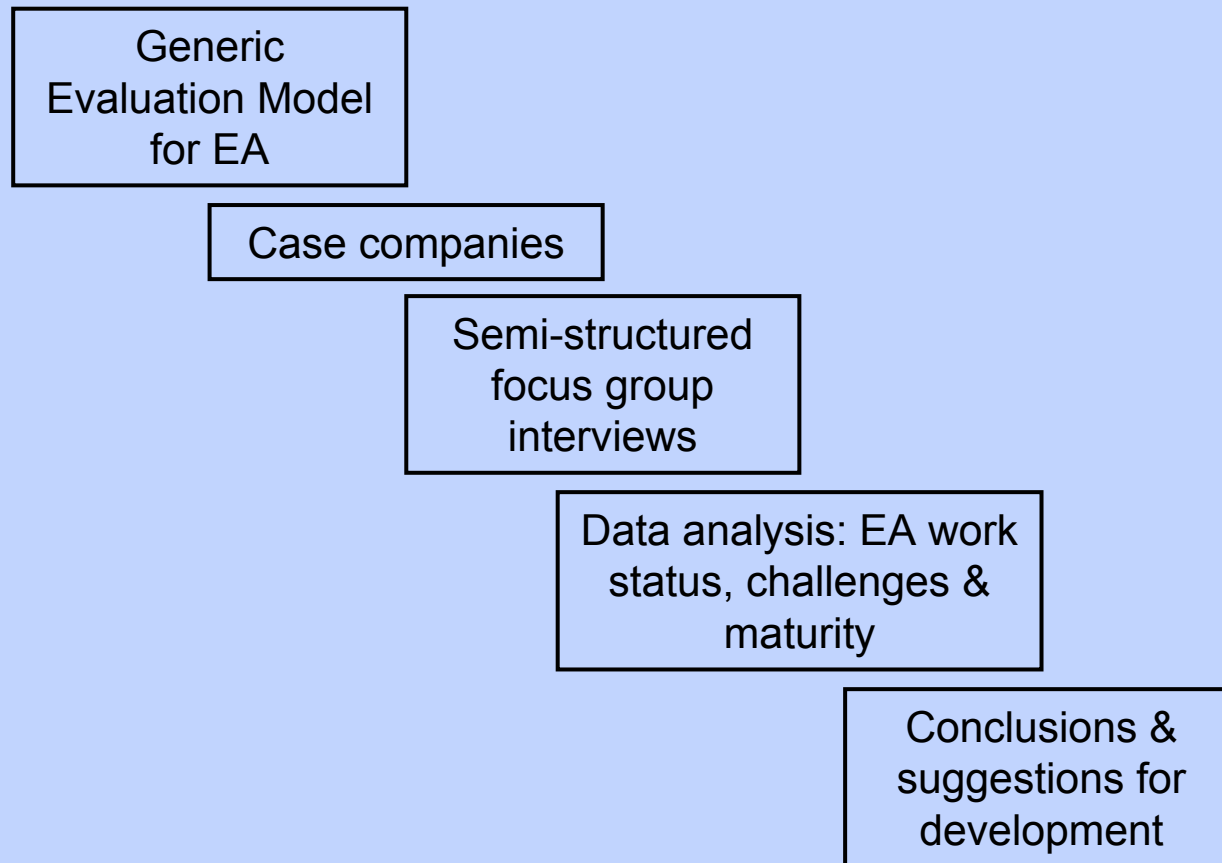
Systems / Applications Architecture

Technology Architecture / Infrastructure

Study Background

- Academic and industry interest
- Potential for significant benefits
- Fragmented research domain
- Few studies on EA work status
- ➔ What is the status of EA work in companies?

Research Process



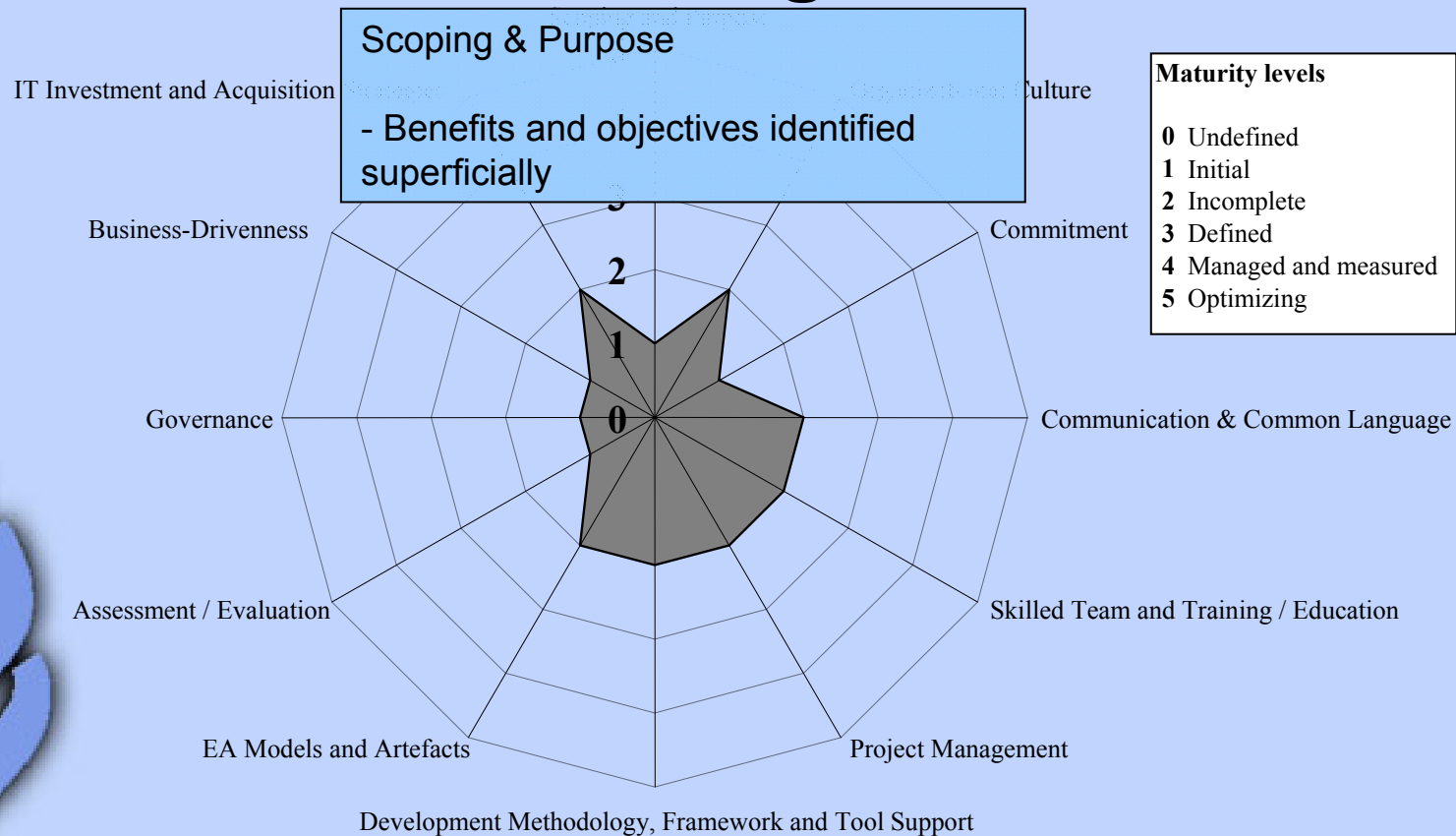
Generic Evaluation Model for EA

- The model consists of
 - areas of EA work (adapted from EA critical success factors)
 - key questions related to these areas
 - six maturity levels
- Introduced in detail by Ylimäki (2006)

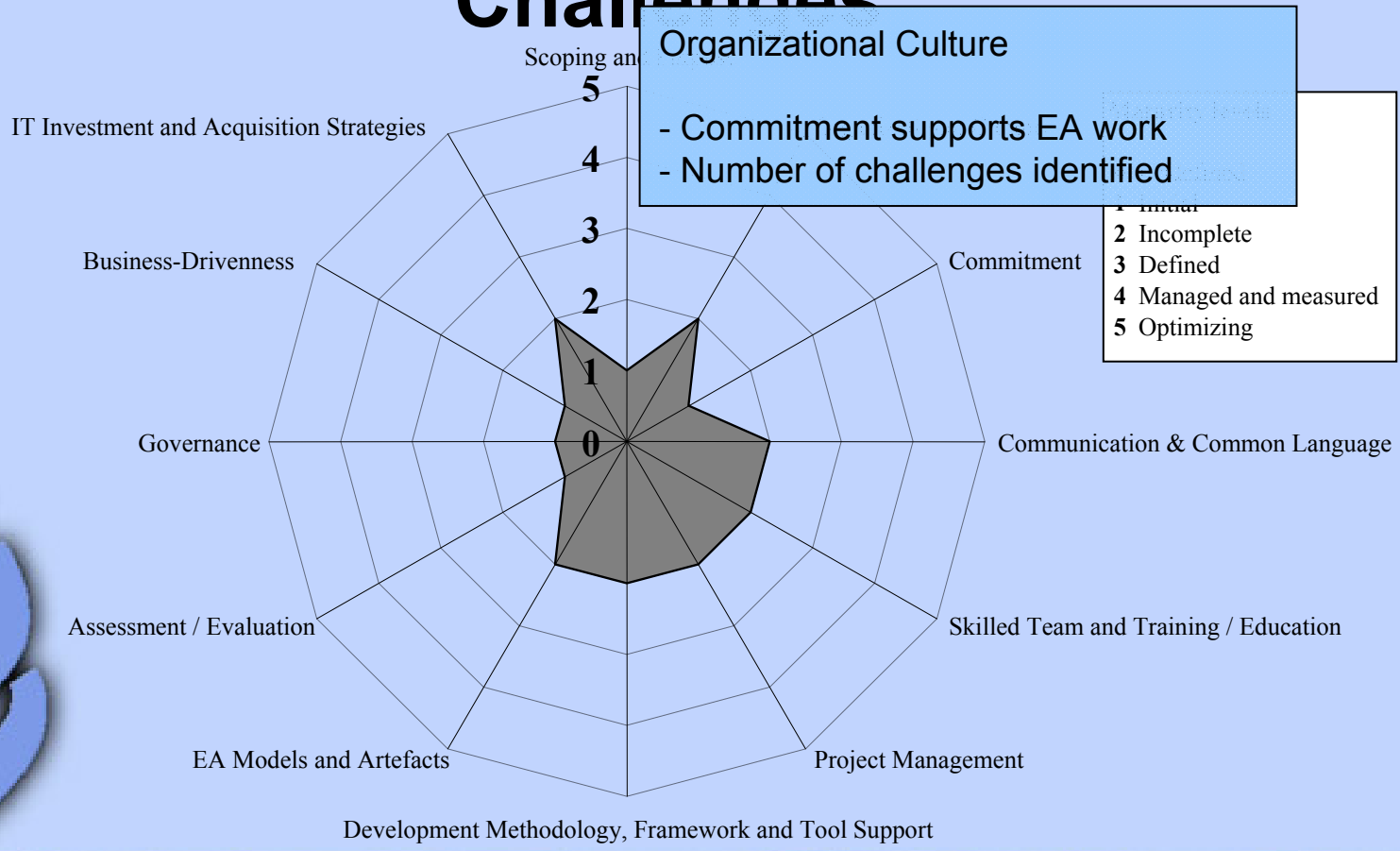
Enterprise Architecture Work Status

- Company 1 – IT service provider
 - EA work methods, models and tools
 - EA evaluation methods, metrics and criteria
 - Knowledge and skills
 - Project management practices
- Company 2 – IT user organization
 - EA frameworks and work methods
 - EA policies
 - EA planning linked to IT investments
- Company 3 – IT user organization
 - Objectives and benefits
 - Business-driven
 - Development plan
 - Independent EA team

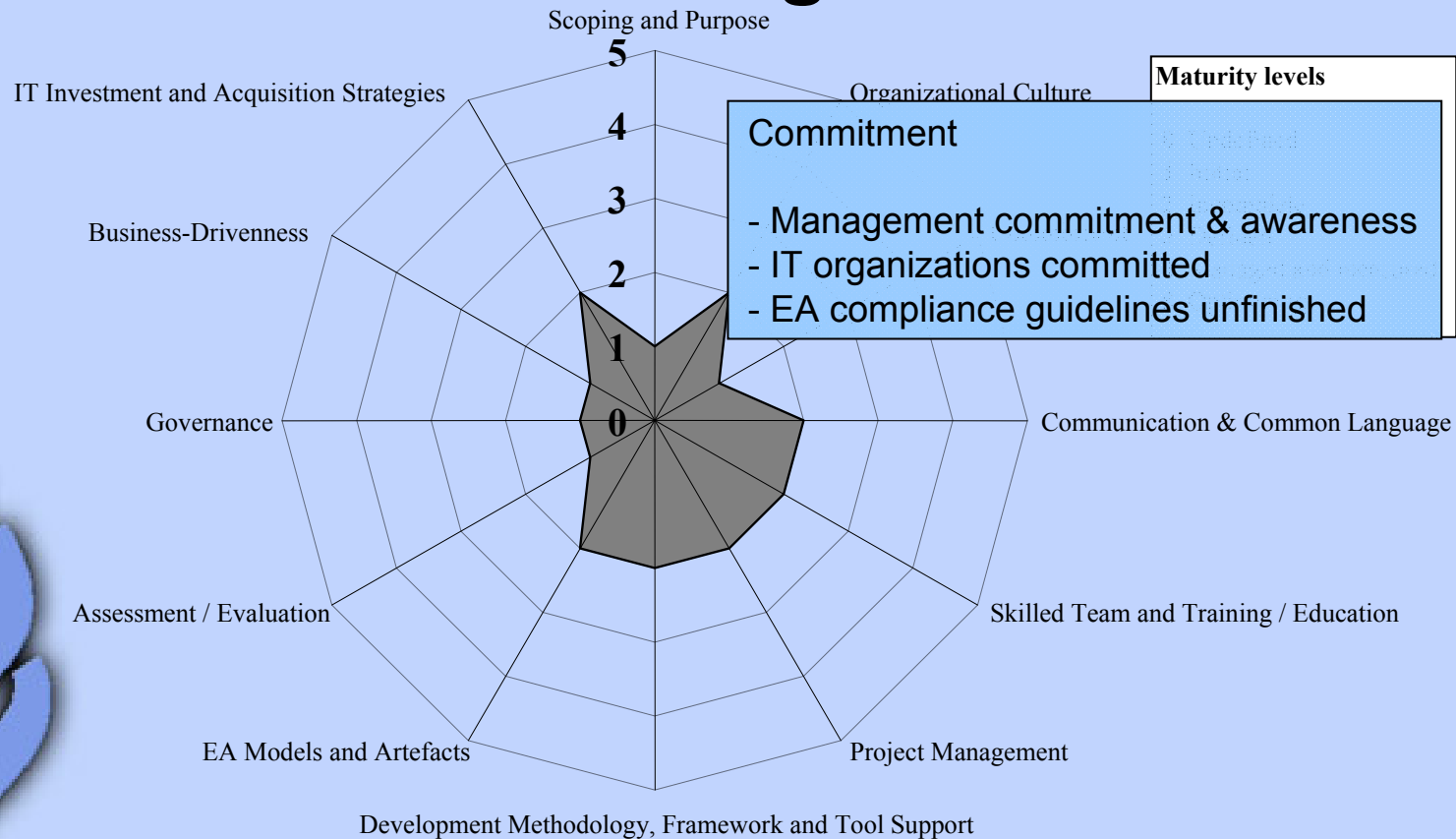
Enterprise Architecture Work Challenges



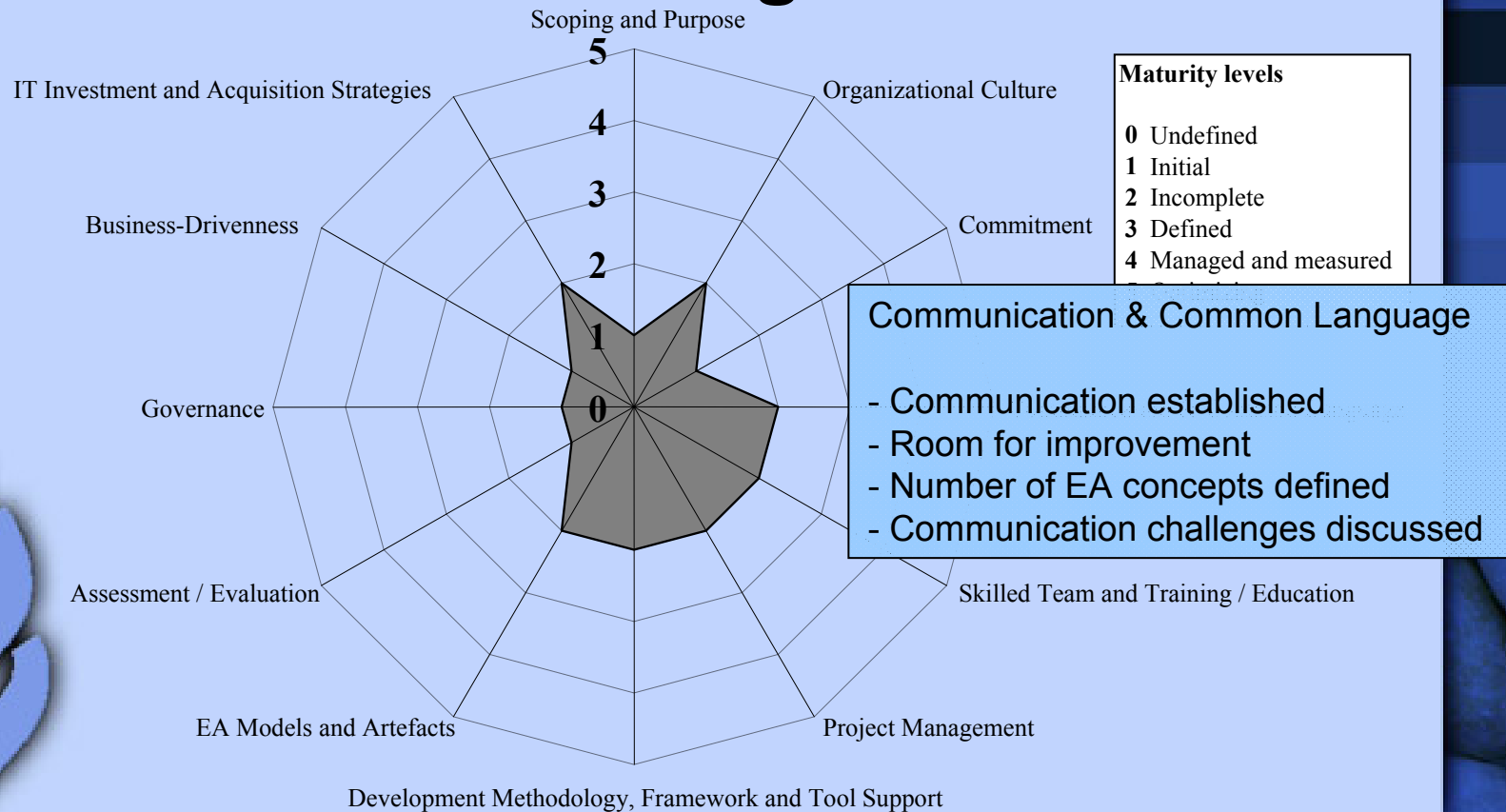
Enterprise Architecture Work Challenges



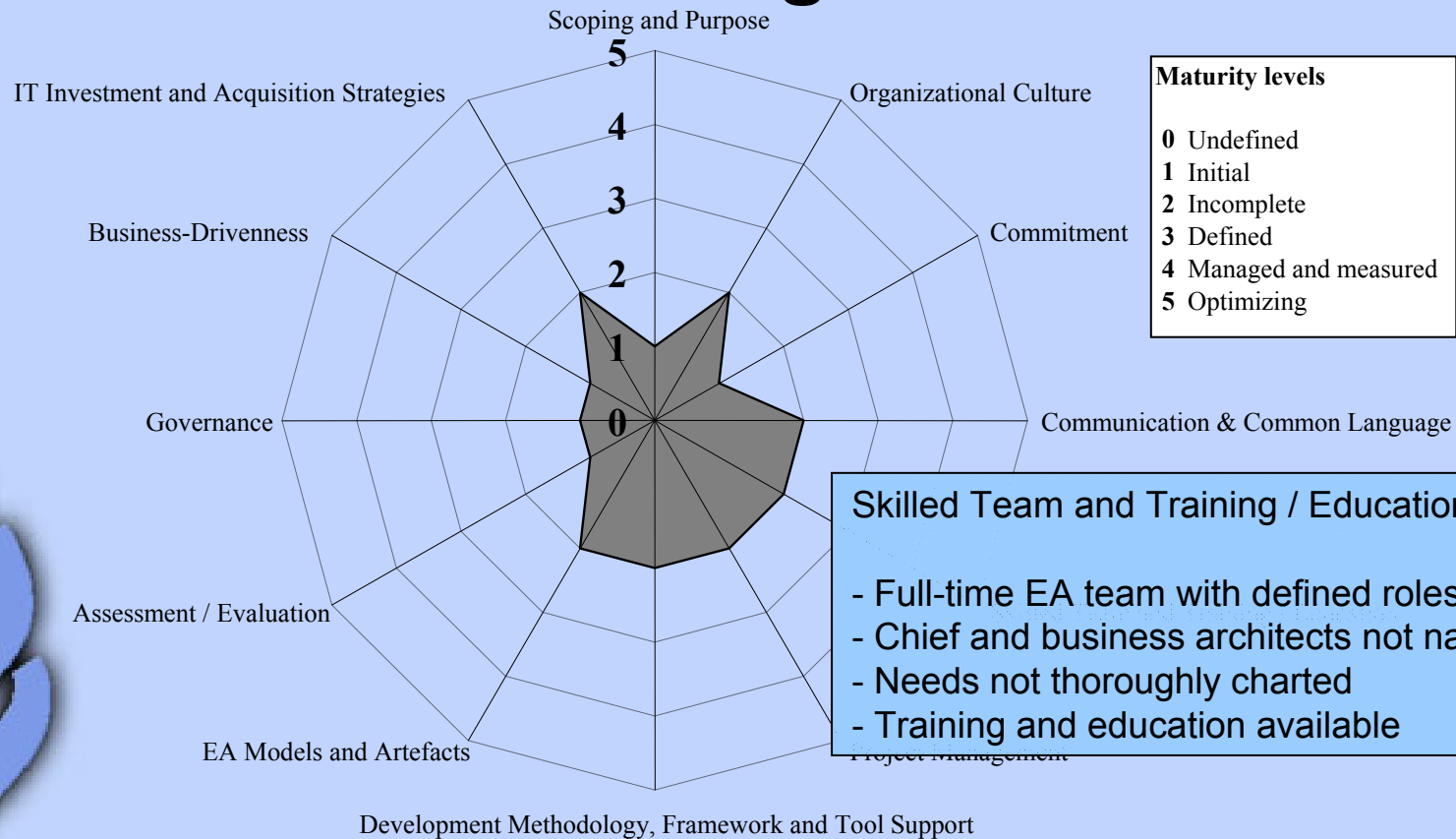
Enterprise Architecture Work Challenges



Enterprise Architecture Work Challenges



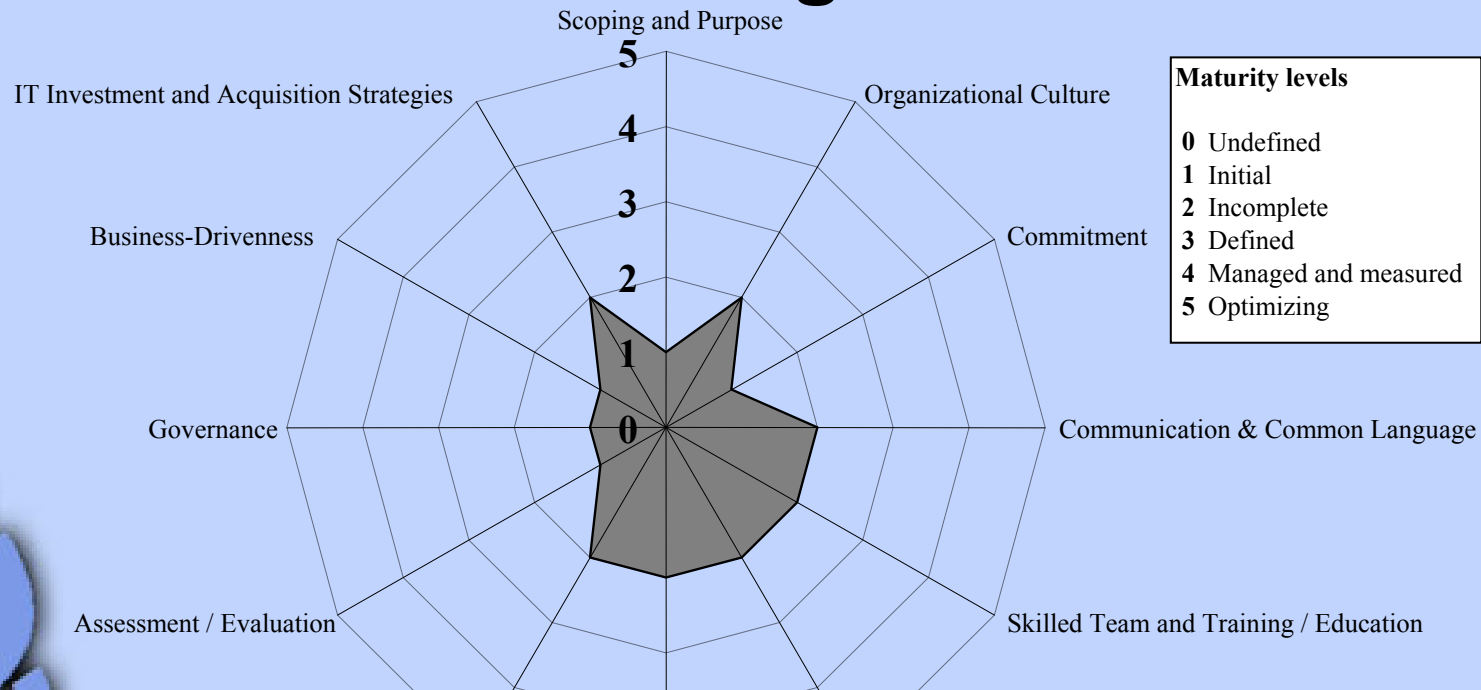
Enterprise Architecture Work Challenges



Enterprise Architecture Work Challenges



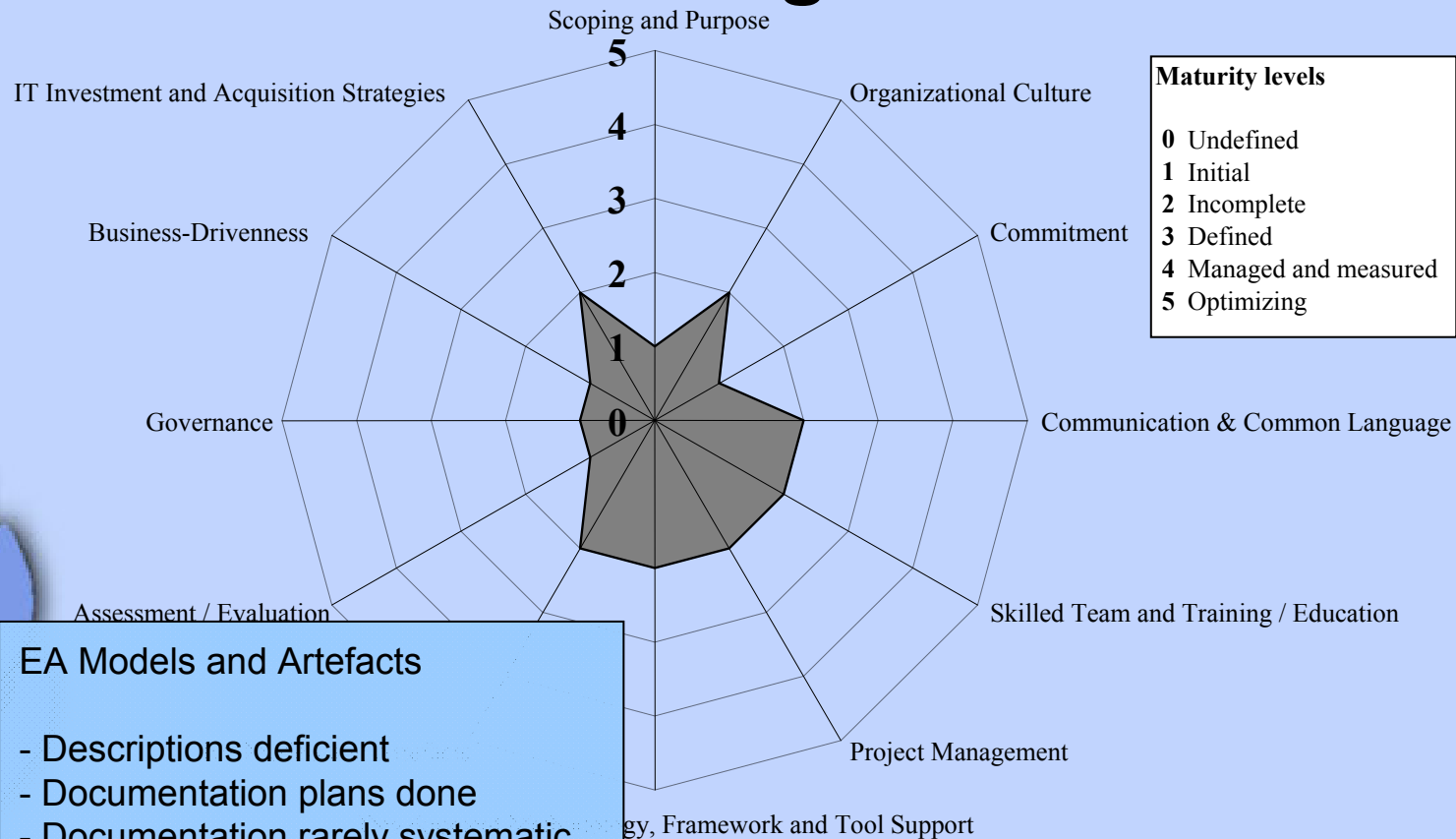
Enterprise Architecture Work Challenges



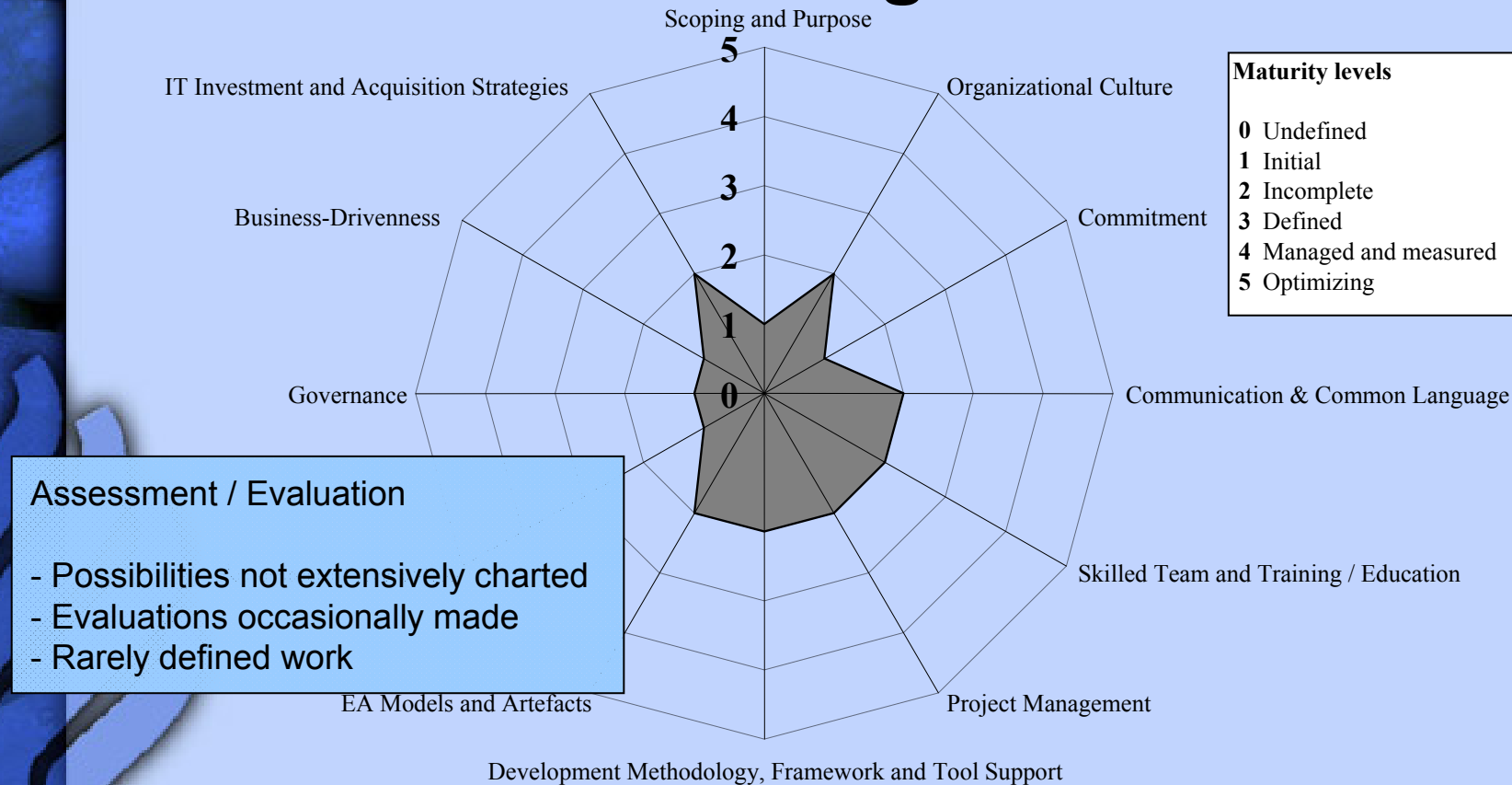
Development Methodology, Framework and Tool Support

- Framework defined and documented
- No defined EA development methodology
- Multiple tools used

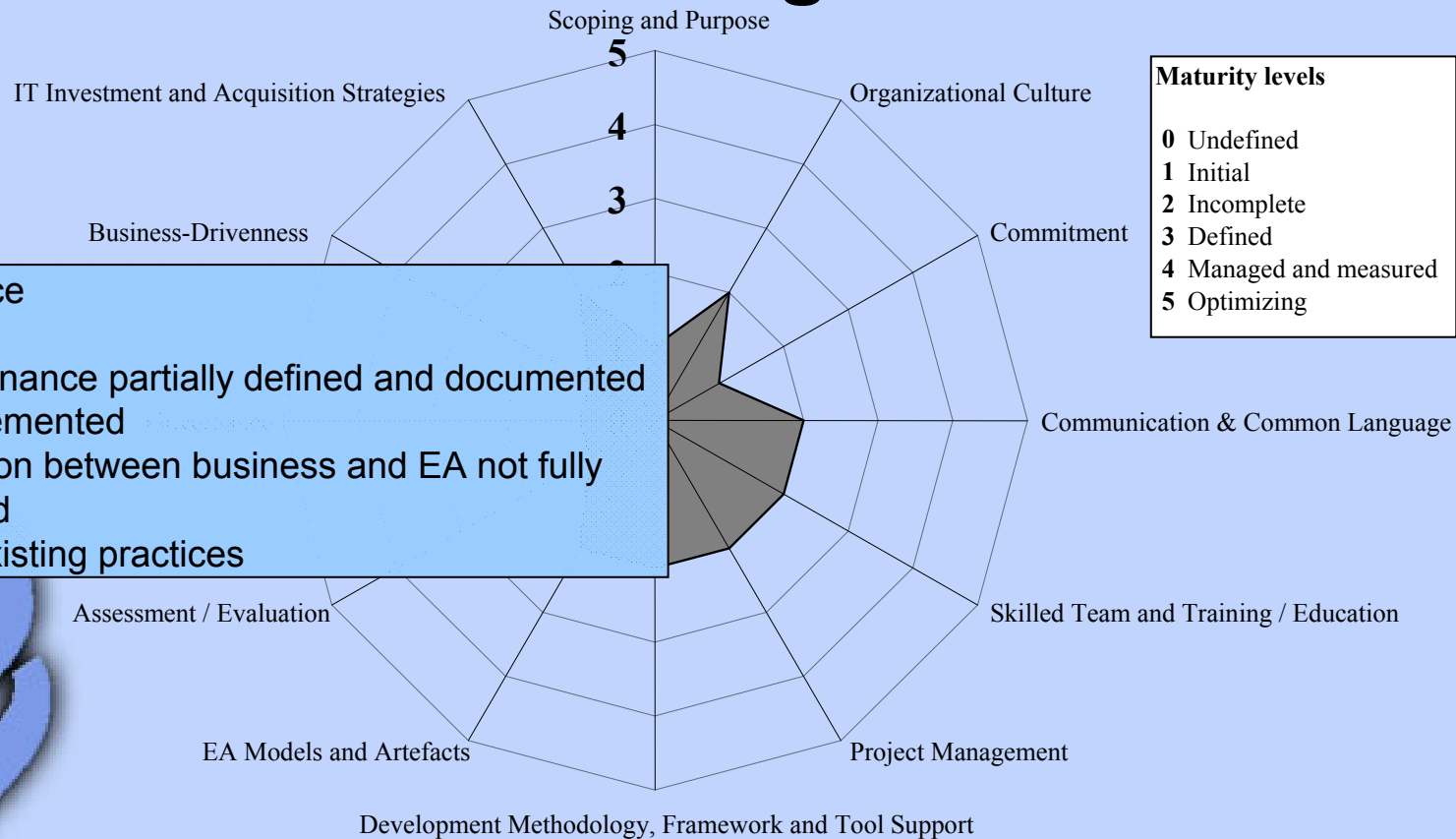
Enterprise Architecture Work Challenges



Enterprise Architecture Work Challenges



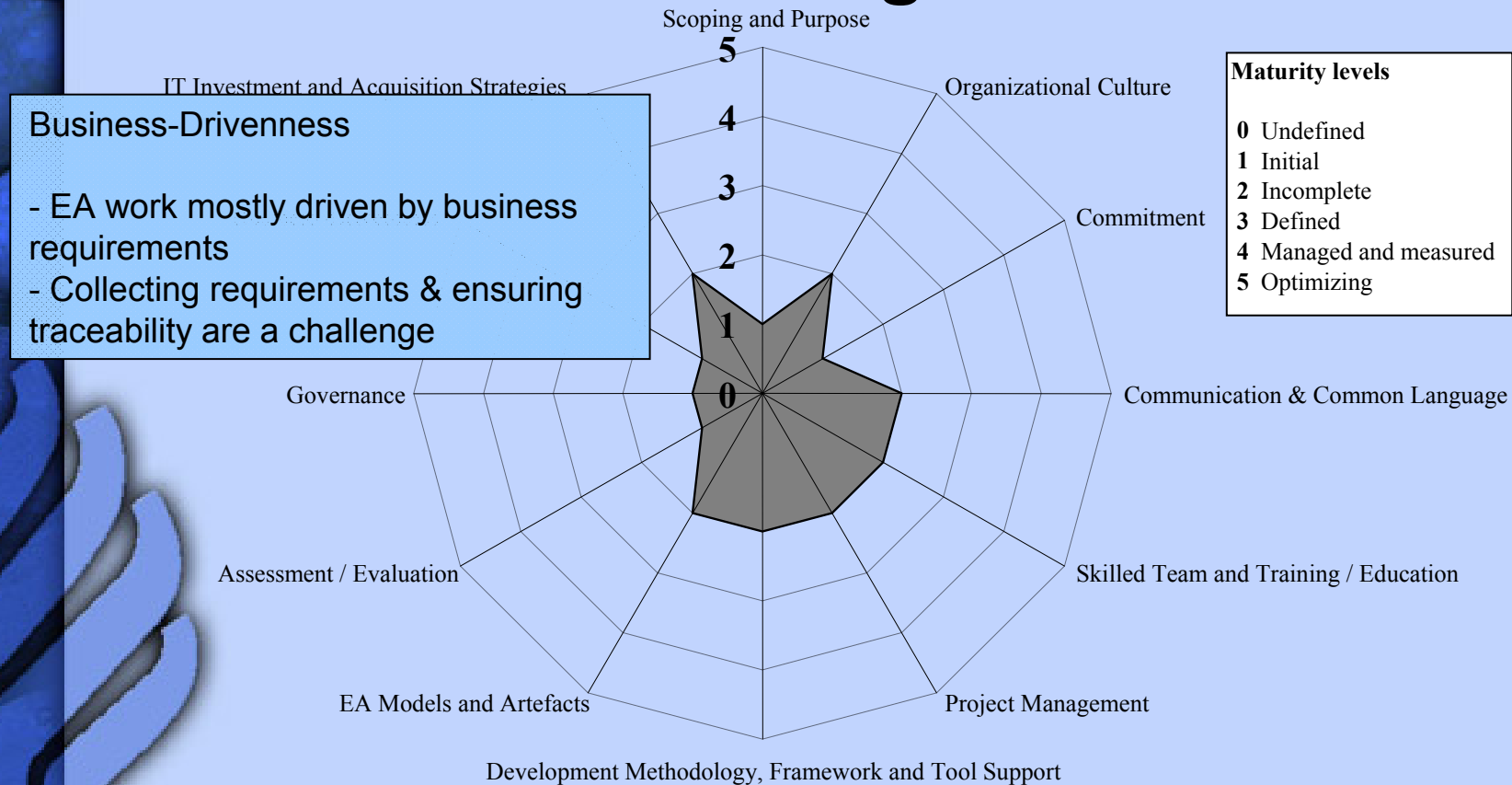
Enterprise Architecture Work Challenges



Governance

- EA governance partially defined and documented
- Not implemented
- Connection between business and EA not fully established
- Use of existing practices

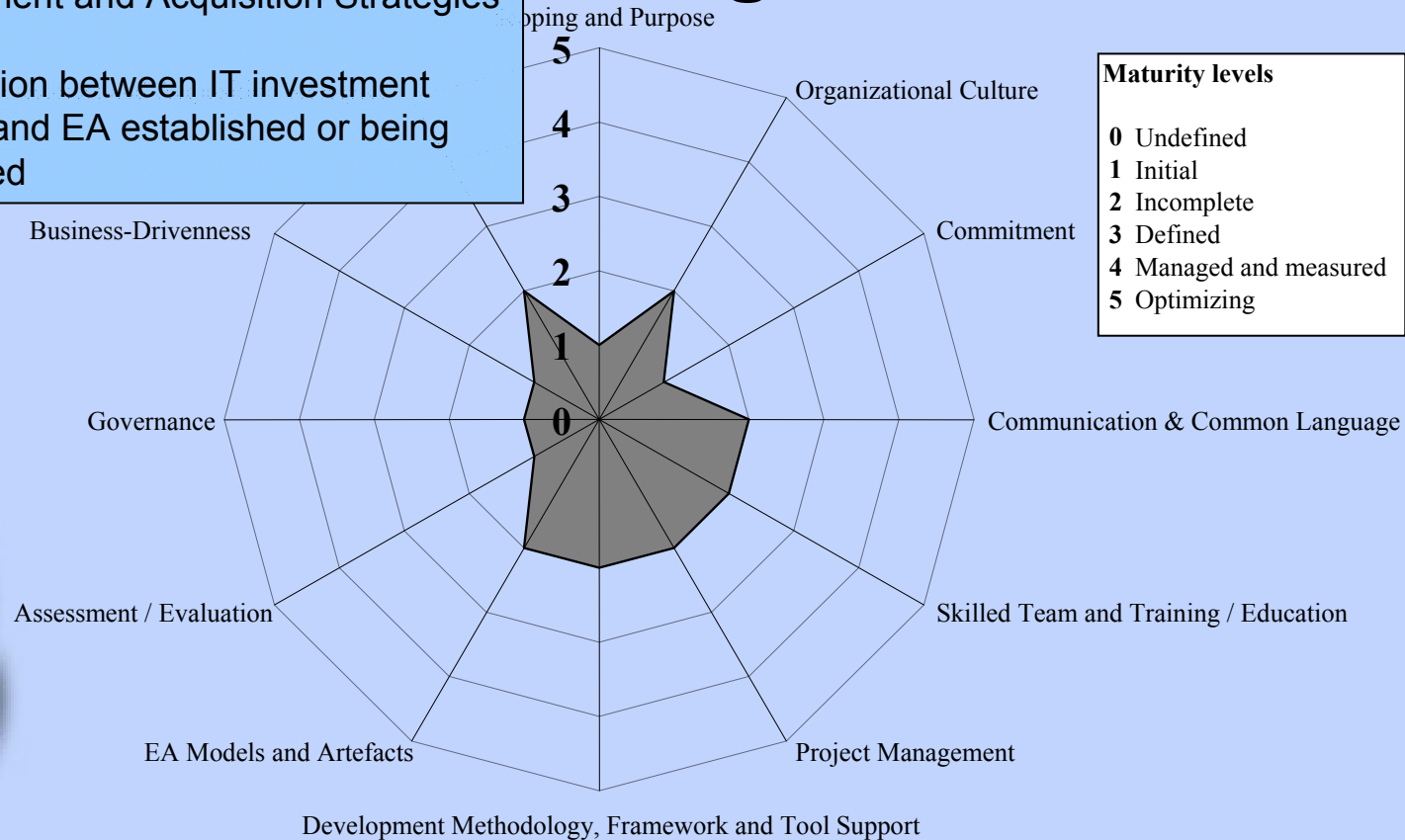
Enterprise Architecture Work Challenges



Enterprise Architecture Work Challenges

IT Investment and Acquisition Strategies

- Connection between IT investment planning and EA established or being established



Summary and Development Suggestions

- EA work incomplete or at the initial state
- Challenges identified -> basis for improvement
- Development suggestions
 - Defining the benefits and objectives of EA and EA work
 - Charting & tracing business requirements
 - Carrying out business-driven EA projects
 - Displaying EA benefits to management & business
 - Charting evaluation needs and possibilities
 - Increasing interaction between business and IT

Further Research

- Prioritizing EA work areas
- Charting connections between areas
- Producing more generalizable results
- Longitudinal research