### Questionnaire Guide

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|  | **Questions** | | **Options** |
| **Background** | Q1.1 | How long (in years) have you been involved in software projects? | * *< 3 years* * *3-5 years* * *6-10 years* * *11-20 years* * *21-30 years* * *> 30 years* |
| Q1.2 | How long (in years) have you been with your current organization? | * *< 3 years* * *3-5 years* * *6-10 years* * *11-20 years* * *21-30 years* * *> 30 years* |
| Q1.3 | What type of architect are you? | * *enterprise architect* * *solution architect* * *data architect* * *technical architect* * *other:....* |
| Q1.4 | Can you briefly describe your job, your working activities (incl. what you are accountable and responsible for like which applications, business processes, and technical infrastructure) ? |  |
| Q1.5 | How long (in years) have you been in your current role? | * *< 3 years* * *3-5 years* * *6-10 years* * *11-20 years* * *21-30 years* * *> 30 years* |
| **RQ1**  **Themes: AK Representation & Communication** |  | For the purpose of this survey, Architecture Knowledge (AK) is defined as knowledge elements including architecture design, design decisions, assumptions, context, and other elements that together determine why a particular solution is the way it is. |  |
| Q2.1 | What is AK for you? |  |
| Q2.2 | What type of AK do you document and keep? |  |
| Q2.3 | Do you capture AK consistently in all projects? | * *Yes* * *No* |
| Q2.3.1 | Why not? |  |
| Q2.4 | In your experience, what are the AK elements that you miss? |  |
| Q2.5 | In your experience, what are the AK elements that you find particularly useful? |  |
|  | For the purpose of this survey, Architecture Knowledge (AK) Representation is defined as capturing and preserving AK in a particular form (e.g., diagrams, PowerPoint, views, viewpoints, or principles). |  |
| Q3.1 | Do you know of any standard (e.g., ISO) notation or language to capture AK? | * *Yes* * *No* |
| Q3.1.1 | (Among them) What do you use? |  |
| Q3.2 | What tools or methods do you use to capture and represent AK? |  |
| Q3.3 | In your experience, what is the most useful architecture documentation? |  |
|  | For the purpose of this survey, Architecture Knowledge (AK) Communication describes to how the knowledge is disclosed between involved stakeholders (e.g., via workshops, or corporate sharing platforms). |  |
| Q4.1 | Which stakeholders do you need to communicate AK with? |  |
| Q4.2 | In general, what tools or methods do you use to share and communicate AK? |  |
| Q5.1 | Do you know certain methods for AK which are exclusively valid or applied to your business domain? | * *Yes* * *No* |
| Q5.1.1 | Can you specify them? |  |
| **RQ2**  **Theme: Sustainability** |  | In this section, we want to ask you questions that will help us explore where and how we can address sustainability aspects in software architecture in the future.  Please notice: We intentionally do not provide a definition of sustainability to understand your current perspective on sustainability in IT. |  |
| Q6.1 | What is IT sustainability for you? |  |
| Q6.2 | Are you aware of any IT related sustainability targets or measures in your organization/department? | * *Yes* * *No* |
| Q6.2.1 | If yes: Can you please specify? |  |
| Q6.3 | Do you consider sustainability aspects in your daily work? | * *Yes* * *No* |
| Q6.3.1 | If yes: what aspects of sustainability and how? |  |
| Q6.3.2 | If no: What hinders you? What would you need to address sustainability in your daily work? How and where would you address it? |  |
| **Concluding** | Q7.1 | Ideally, what would you wish to have in order to better represent and communicate architecture knowledge? Do you miss something in your current practice? |  |
| Q7.2 | Do you have any additional comments regarding this topic or the study? |  |