	Capella/ Arcadia	SYSMOD
Tool	<ul> <li>Open-source (Eclipse Public License - EPL)</li> <li><u>Add-Ons/Viewpoints</u> extend Capella with additional features         <ul> <li>Requirements</li> <li>Viewpoint</li> <li>for ReqIF-import</li> <li>and traceability</li> <li>Export functions for Word and other formats</li> <li>Integration with other PLM and MBSE tools</li> <li>Property Value Management with the PVMT</li> <li>Etc.</li> </ul> </li> </ul>	<ul> <li><u>Profiles</u> for various modeling tools available, e.g., Cameo Systems Modeler, Enterprise Architect</li> <li>Possibility to implement a SYSMOD-profile and use it with any tool that is conform to the SysML-specification</li> </ul>
Language, Method & Process	<ul> <li>High integration of language, methods, processes, and tool.         <ul> <li>Capella is the modeling tool, it fully supports Arcadia which contains the modeling language, method, and process.</li> <li>The Arcadia modeling language is SysML-oriented, this means that it uses similar concepts. (For a detailed comparison check blog part I)</li> <li>The Arcadia processes and methods provide a built-in abstraction mechanism for the different layers of analysis and architecture. The System Analysis and Logical and Physical Architecture processes are obligatory. The Operational Analysis and EPBS Architecture are optional. (For a detailed comparison see blog part II)</li> </ul> </li> </ul>	<ul> <li>SYSMOD is language-agnostic but it is recommended to use it with SysML</li> <li>The SYSMOD modeling concepts are very generic so they can be used to describe Arcadia elements. For example:         <ul> <li>The SYSMOD System Objectives can be used as Arcadia System Missions, but they can also be used to describe the Operational Missions on the OA-Level</li> <li>The System Context in SYSMOD can be abstracted to the Arcadia Contextual System Actors [CSA] diagram, but also be detailed to the Arcadia Contextual Detailed Interface [CDI] diagram</li> </ul> </li> <li>SYSMOD enables a high-level of freedom. Depending on your project requirements you are free to choose what methods you need and how your process should look like         <ul> <li>The concepts are very generic and support different levels of abstraction</li> </ul> </li> </ul>
Customization, Adoption,	• Advantage of Capella is that it is a ready to use tool for modeling. It provides the Activity Browser to guide through the process. Each process step contains specific diagrams with a customized	<ul> <li>SYSMOD is a toolbox or collection of well-known and good MBSE- practices. This enables a wide variety of possibilities:</li> </ul>

Training and Roles	<ul> <li>palette. Small customization of the tool, language and method is required to get started</li> <li>This can enable a steep learning curve and reduce the resistance to change, as there is no in-depth knowledge of tool, method and language customization required</li> <li>But still you cannot get started without training of the concepts and the integration of Capella/ Arcadia into the existing toolchain and processes</li> </ul>	<ul> <li>Following kind of a "Pick what you need"-approach you can pick specific methods to integrate them in your existing process</li> <li>It is also possible to do "Follow the process". This means you can use SYSMOD as a comprehensive MBSE methodology</li> <li>But as always it is more important to master the craftsmanship rather than blindly following the process</li> <li>SYSMOD provides MBSE roles, e.g., the MBSE Methodologist or System Architect. It also supports with customization and adoption guidelines, e.g., how to pick and customize the methodology</li> </ul>
Conclusion	<ul> <li>It is ready-to-use with little up-front customization effort and guides through the analysis and architecture activities with a clear path</li> <li><u>But</u> it restricts the freedom to choose and customize because of its high-level of integration. For customization profound knowledge of the Eclipse environment (EMF) is required</li> </ul>	<ul> <li>It is modular and generic and enables different levels of abstraction</li> <li><u>But</u> at least some amount of customization is needed which requires additional knowledge and up-front work</li> </ul>