



**AutomationML - Quo vadis?**

# <AutomationML/>

**The Glue for Seamless  
Automation Engineering**

# A short review ...

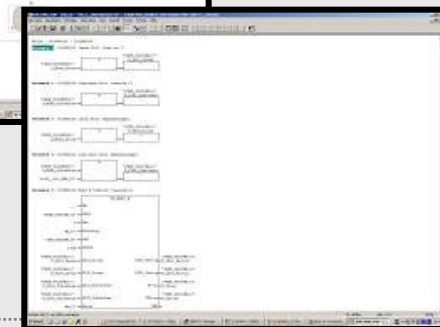
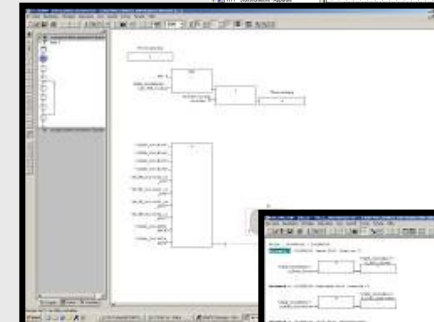
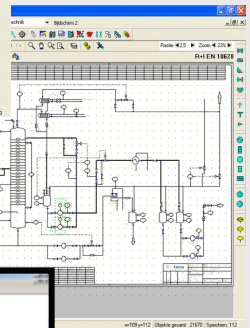
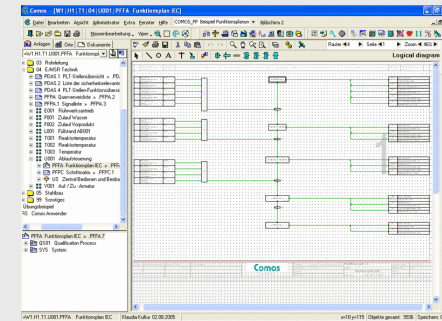
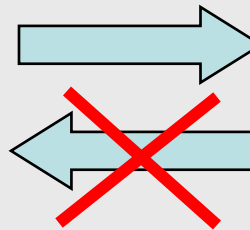
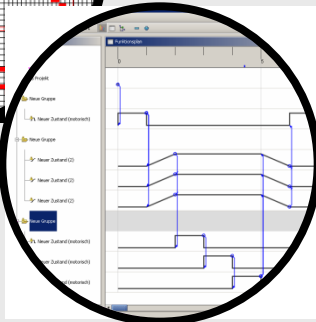
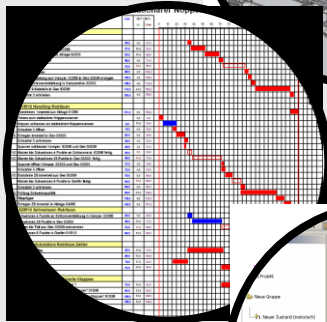
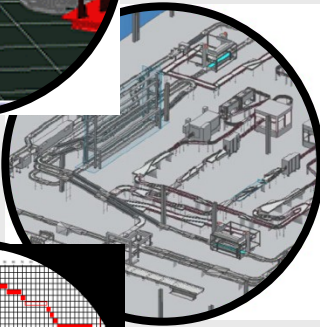
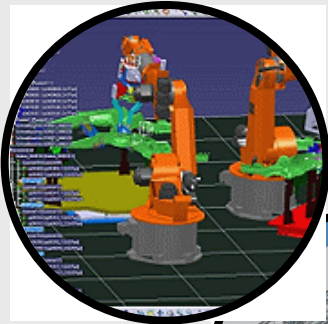


*„It always seems impossible until its done.“*

Nelson Mandela

# Problem and Motivation

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# Our Goal and Pretension







**Get rid of the paper interface!**

[www.automationml.org](http://www.automationml.org)



## AutomationML is the “Glue for Seamless Automation Engineering” with

-  interoperability between tools
-  in all Engineering-Phases,
-  seamless und scalable,
-  as an open und standardized data format.



2006: Start of common activities as a industry consortium

2007: First press workshop for advertising Automation ML

2008: Announcement of AutomationML 1.0, COLLADA 1.5, PLCopen XML 2. Start of standardization in the IEC/DKE.

2009: Foundation of AutomationML e.V. and announcement of AutomationML 1.1

2010: 1st user conference, submission of part 1 at the IEC

2011: 1st plugfest in Lemgo

2012: 2nd AutomationML conference

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# What we reached to date



**Part 1 in standardization is very advanced**



**Exploitation of different use cases**



**Detection of new fields of application for  
AutomationML**



**First pipelines between tools**



**Establishment of the association with a structure of  
organization**

# ... and the foresight into year 2018

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*„The best way to predict the future is to create it.“*

[ Peter Drucker, 1909-2005, Management Consultant ]





# AutomationML in 2018



**AutomationML is a mainstream standard for the exchange of engineering-data**



Further distribution of AutomationML



Enlargement of the acceptance of AutomationML



Add-on of the field of application for AutomationML



**AutomationML standard covers every relevant data, which are necessary for the exchange in engineering processes.**



Coverage of all relevant information in the engineering process of plant engineering



Extension of AutomationML in various possible technologies



Adaption of the data format on changing requirements of the engineering process in production systems



# AutomationML in 2018



**Essential elements of AutomationML are standardized international standard series in the IEC.**



Preparation and maintenance of IEC standard documents for every relevant parts of AutomationML data format



Cooperation with other organizations for preparation and stabilization of consortial standards



Cooperation with other organizations for preparation and stabilization of referenced international standards



# AutomationML in 2018



**AutomationML e.V. supports user and developer as a part of an active community in the usage of AutomationML**



Establishment of an active community of users and developers



Provision of information for users and developers



Provision of an AutomationML user platform



## AutomationML in 2018



**AutomationML e.V. promotes the distribution by an active and continuous marketing**



AutomationML promotes the AutomationML technology on own events.



AutomationML promotes the AutomationML technology on public events.





# AutomationML in 2018



**AutomationML association is organized by key aspects, which are handled in separate and networked working groups**

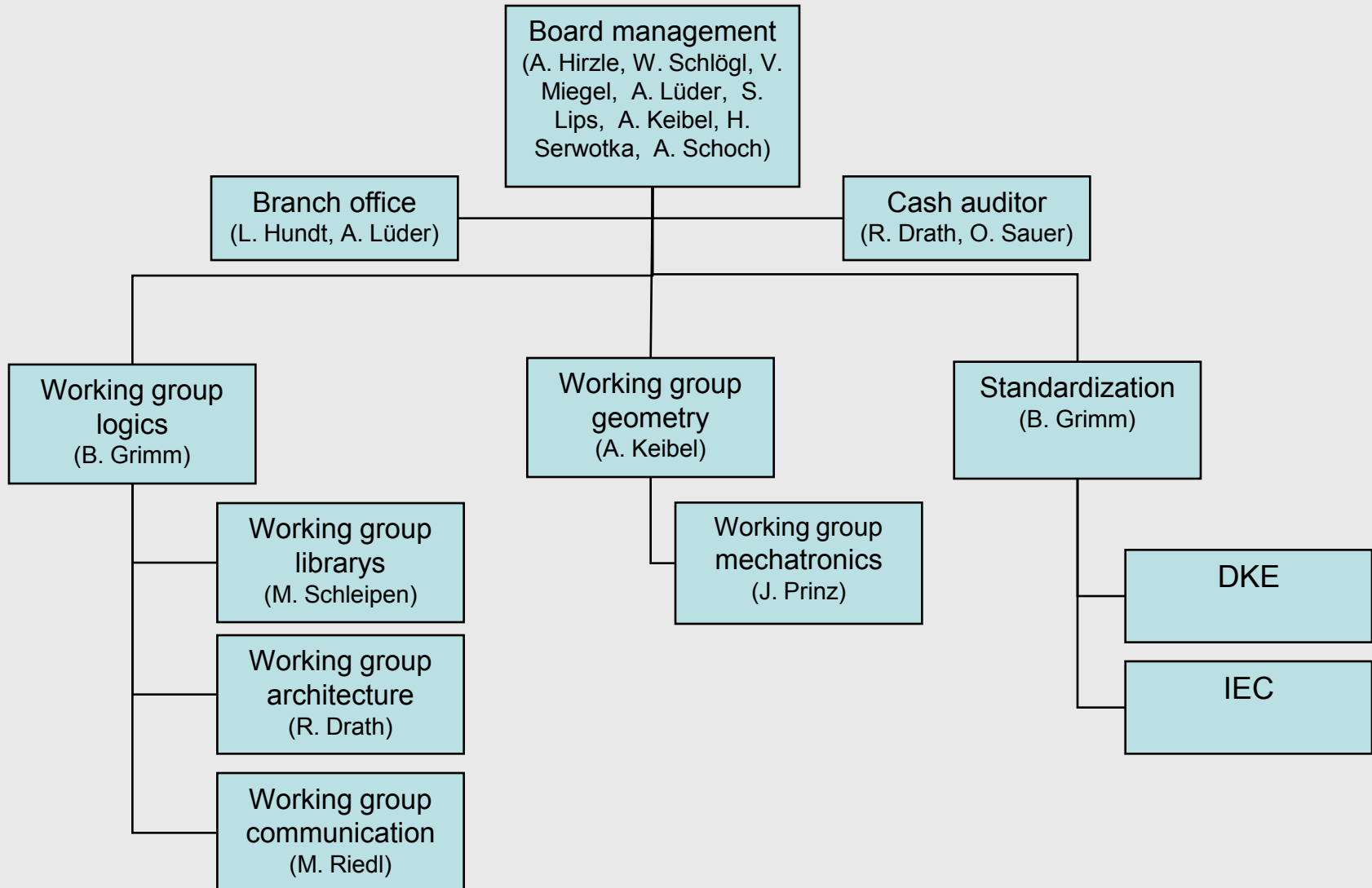


AutomationML association has an installed and scalable working group structure.



Installation of a development- and change process for AutomationML technologies.

# Structure of association in 2011





## AutomationML in 2018



www.shutterstock.com - 74190343

**AutomationML e.V. leans on about 100 members in 2018, underneath them there are considerable users and producers as well as academic members.**



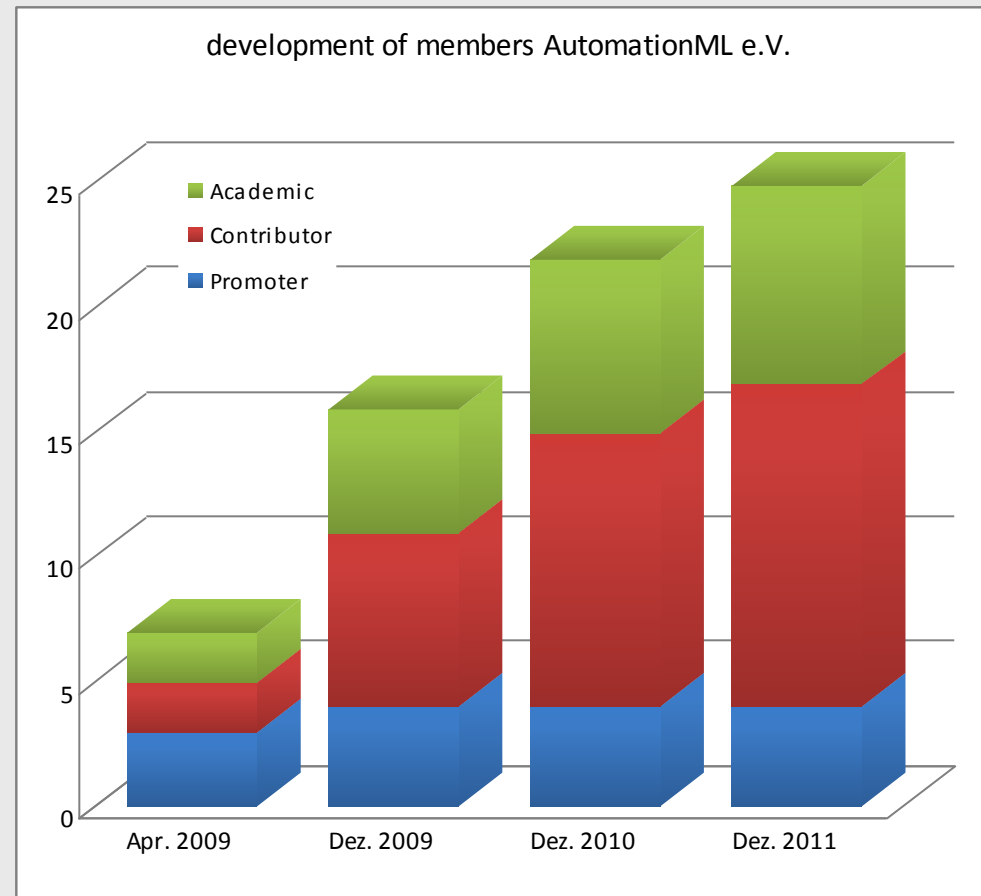
**Strong marketing to recruit new members**

## ■ Development of members

- April 2009:  
7 members
- December 2009:  
16 members
- December 2010:  
22 members
- December 2011:  
25 members

## ■ Structure of members:

- Promoter 4
- Contributor 13
- Academic 8



# Overview of members

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# AutomationML in 2018



**AutomationML e.V. offers conformance tests and reference tools for support and quality assurance the usage and implementation of the data format.**



Specification of conformance tests



Implementation of testing tools



Implementation of reference tools



# Thank you



Organization: Branch office (Mr. Hundt) / Grimm / Ruckh



referees



exhibitors



...



Especially thanks to you for coming, your interest and  
your input



Your questions?



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