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## Preface

Dear partners and friends,

SUSTAINABILITY constitutes a major goal for many companies. Even though, this objective is quite ambitious and challenging, its attainment paves the way for generating value and success. This newsletter introduces the best practices of GAMI regarding the implementation of supply chain sustainability:

- Supplied development projects have been explored
- Educational programs and trainings support organizations by means of structured methods and approaches regarding operations management
- Industry 4.0 related approaches and technologies do have an impact as well. The Logistics 4.0 approach developed by GAMI is ensuring a reliable supply chain among all entities

The newsletter will provide you with more information regarding our industry projects, training services as well as our events.

Sincerely,

Stefan Ruhrmann

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## News

### **KIT China Branch honored with the title '2016 SIP Advanced Education Unit'**

Since May 2014, the KIT is pooling its projects with Chinese research and industry partners. Its branch office located in the Suzhou Industrial Park (SIP) near Shanghai. The 'SIP Work Committee' has honored the KIT China Branch with the title '2016 SIP Advanced Education Unit' and the director Guan Xiangzhen with the title 'Excellent Educator'. The committee stressed the fact that the branch is a sublime example of clustering innovation resources and thus contributing to the economic success of SIP. By offering teaching and training opportunities in the areas of production, quality management and supply chain management at the Industry 4.0 Demonstration and Innovation Center, GAMI contributes to the preparation of staff and managers of producing companies in China for the country-specific requirements of the fourth industrial revolution. Since its opening in November 2015, more than 1,000 visitors from Sino-German enterprises, government departments and academic institutions have visited the learning facility. Furthermore, KIT's China Branch is able to provide German scientists and research partners with direct and easy access to local contacts. For this purpose, Suzhou is a particularly suitable location, not only because many German industrial companies are located in SIP but also because 26 top universities from Europe, North America, Australia and Asia have set up branches there.



*KIT China Branch representative (left 3<sup>rd</sup>) at the Award Ceremony*

## Industry Projects

### Integrating Social Responsibility & Sustainability into the Supply Chain

Due to the growing public interest in Corporate Social Responsibility and sustainable development within global supply chains, aspects like resource efficiency, health and safety, quality and environmental issues as well as legal aspects have to be integrated into the supplier management. In order to support German companies in improving their Chinese suppliers in these areas, the so-called SUSTAIN project has been launched. The three-year project is conducted by GAMI, Global Advanced Manufacturing Institute, in cooperation with German companies and their Chinese suppliers. In total, 21 suppliers will participate in this project according to the agreed time table. Currently, eleven supplier development projects have been launched.

To give an example, one of the suppliers' objective is to improve the production efficiency and quality condition of their assembly process. Therefore, a two-level process analysis is conducted on site. To understand the overall flow from dock to dock, a value stream scan was performed in a preliminary stage. In a subsequent step, improvement potentials were identified and, a first target state was established. Afterwards, a detailed process analysis on the supplier's assembly process was conducted.

Following the Lean Six Sigma approach, solutions to improve the assembly process' efficiency are defined in collaboration with the supplier considering the flow principle and line balancing methods. In the next step, visual control will be established to secure the improvements. Furthermore, data collection and analysis with regard to quality aspects will be conducted, laying the foundation for quality improvements. An effective and pleasant working atmosphere can be established through the commitment of the supplier's management board and through the strong support from their management team as well as from the shop floor operators. This way even challenging tasks can be tackled in an efficient manner.



*Process Analysis Discussion on Customer Site*

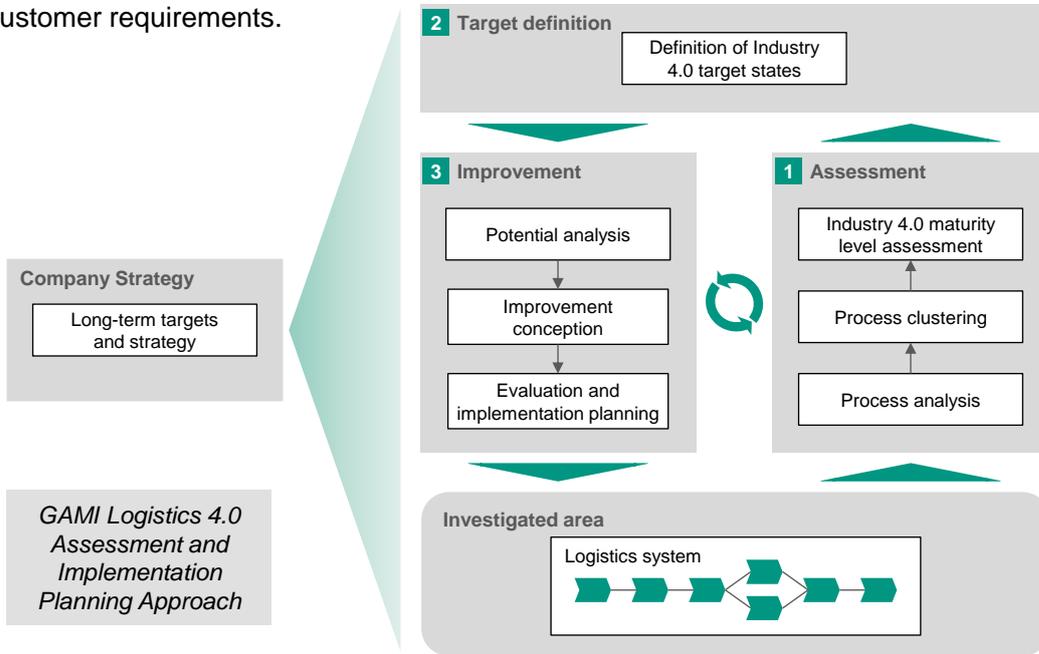
For further questions regarding our project approach and success please contact Mr. Huang Bin ([huang.bin@silu.asia](mailto:huang.bin@silu.asia)) or visit our website [www.silu.asia](http://www.silu.asia).

### Logistics 4.0 – Assessment and Implementation Planning

Smart and connected Industry 4.0 technologies offer major potentials for future logistics in terms of flexibility and productivity. However, industry is still struggling with the implementation of smart logistics solutions due to the uncertainty about the steps required to implement Industry 4.0 and the available solutions and providers which fit best to the individual needs.

GAMI offers an innovative workshop concept to support customers in the decision making and implementation process of Industry 4.0 in logistics. Within the workshop, participants analyze the actual Industry 4.0 performance level of the

company's logistics using process analysis and assessment tools. Building on the actual state and the company's long term strategy, the participants define performance targets and develop smart logistics concepts based on creativity techniques and benchmarking approaches. Finally, the participants derive a detailed action plan and transfer the results to a structured implementation roadmap. During the whole workshop participants are guided by experienced project engineers and industry experts from GAMI. All workshop contents and approaches can be adjusted in accordance with the individual customer requirements.



As we are heading towards the end of year 2016, the GAMI Logistics 4.0 workshop provides an excellent opportunity to review the status quo of the logistics processes and solutions taking it as the baseline for next year's efforts in implementing innovative logistics solutions to define strategies for 2017. For further information about the workshop and other Industry 4.0 trainings, please contact Stefan Ruhrmann ([ruhrmann.stefan@silu.asia](mailto:ruhrmann.stefan@silu.asia)) or visit our website [www.silu.asia](http://www.silu.asia).

## 2016 Technical Seminar Week - Supplier Development & Quality Management

From 5<sup>th</sup> to 9<sup>th</sup> September 2016, the 'Technical Seminar Week' jointly held by KIT HECTOR School of Engineering and Management and GAMI-Global Advanced Manufacturing Institute took place in Suzhou, China. The HECTOR School, Technology Business School of the Karlsruhe Institute of Technology (KIT), provides its professional participants with the unique opportunity to gain state-of-the-art know-how in Supplier Development & Quality Management directly on-site in China.



Group picture at the KIT China Branch/GAMI

The seminar week was composed of a compact knowledge transfer in lectures, case studies as well as excursions and company tours. Prof. Dr.-Ing. Gisela Lanza, the director of the wbk Institute of Production Science at the Karlsruhe Institute of Technology (KIT) and Mr. Stefan Ruhrmann, General Manager of Suzhou SILU Production Engineering Services Co., Ltd. delivered the lectures, which were complemented by tours to leading companies and research centers in Suzhou and Shanghai, such as Bosch, MTU, LZY and Zeiss. By providing a state-of-the-art knowledge transfer on-site, the participants have used the platform to communicate with professionals and executives working in China. Finally, all participants were fascinated by the amazing development of the Suzhou Industrial Park (SIP) due to the visit of the SIP exhibition hall. Save the date: We have already scheduled the next technical seminar week for professionals with more than three years of working experience for September 2017.

## Assessment Project to Diagnose the Enterprise Technological Innovation Capability

Cooperating with Suzhou Local partners for the 2<sup>nd</sup> time, GAMI conducted an assessment project for promoting the mechanism of Enterprise Technological Innovation Capability for production sites located in Suzhou. Seven companies of leading brands in Home Appliances, Machine Building, Electronics and Automotive Industry were selected to participate in the project.

With the experienced consulting experts and industry engineers, GAMI scheduled the impressive steps to achieve the reasonable results and guarantee the final quality. Following the 1<sup>st</sup> step of the 2 days training course in our innovation center with around 20 representatives attending the forum on the topic of “Lean Production and Industry 4.0”, which specially offered an experience for them to learn the cutting edge innovative technology in the advanced German company by our Industry 4.0 assemble line, separate shop floor visiting was arranged for Real-time Data Acquisition. The diagnosis report contained aspects of Lean Production and Industry 4.0 methodologies to evaluate the current maturity level of various production areas. It was not the aim of the assessment to score the enterprise, but to deliver valuable suggestions based on findings from the investigated shop floor.

For further questions regarding our project approach and success please contact Ms. Guo Mengchao ([guo.mengchao@silu.asia](mailto:guo.mengchao@silu.asia)) or visit our website [www.silu.asia](http://www.silu.asia).

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## Training

### Lean Production enabled by Industry 4.0 Training in July

GAMI conducted a training course with the topic of “Lean production enabled by Industry 4.0”.

Lean production is a systematic production management method for the elimination of waste considering small lot sizes and high product variances. Nowadays, more and more individual demands of the customers raise higher requirements for the production system. Under these circumstances, the concept of Industry 4.0 describes the integration of CPS and application of IoT in the production and logistics process, which could generate more benefits and added values for the companies.

GAMI provides the specific course with the goal of changing the mind-set of the respective employees, to provide professional methodologies as well as the implementation on the shopfloor.

In the course, the participants were inspired by the scientific theory of lean production, enthused about this way of thinking and convinced by the practical focus for achieving true corporate lean transformation while at the same time excelling professionally as well as personally. Also, some practical applications of lean production were shown in the automated assembly line enabled by Industry 4.0 in our Innovation Center.



*Lean Production In-House Training Impression*

## VDA 6.5 In-House Training in September 2016

In September, employees of one of the leading companies in the fastening industry were trained in VDA 6.5. Being a crucial part of the process chain, the product audit's objective is to assess the quality level of products manufactured in-house as well as by suppliers. Moreover, the VDA 6.5 is a mandatory requirement to receive the ISO/TS16949 certificate (§ 8.2.2.3 Product Audit). By applying the Turtle diagram during the training, participants identified determinants and risks which affect the result of the 'product audit process'. After the theoretical training, the participants were divided into two groups, and established detailed guideline to structure different levels of complaints regarding fault catalog "packaging" and "appearance".

The guidelines could be extended to other areas. This way, the product audit process could be standardized and conducted more efficiently.



*VDA 6.5 Training Impression*

## The Latest Open Course Training Program for 2017 Q1

GAMI Global Advanced Manufacturing Institute launched its latest Open Course Training Program for 2017. The training program consists of ten training sessions related to topics such as production management, quality management, lean logistics and Industry 4.0 application solutions.

All trainings will take place at GAMI's Industry 4.0 Demonstration and Innovation Center. Providing a unique learning environment by combining theory and practice as well as a platform for expertise exchange. Moreover, our coaches' know-how as well as their industry expertise ensure the most efficient knowledge transformation. Still there are 3 topics in 2016 are still open for application. Please refer to the table below for details:

Training Topics (培训课程名)	Duration [days] (培训时间)	Time Schedule (培训日期)
Systematic Approach to Failure Prevention - Poka-Yoke (预防错误的系统方法-防呆法)	1	2016.12.02
How to upgrade your internal logistics to lean & smart (如何让您的内部物流精益化和智能化)	2	2016.12.09/10
Insight into how Industry 4.0 brings benefit to your company (“工业4.0” 前沿实战应用及实际收益展示)	1	2016.12.16
Improving maturity of your manufacturing process to 6 Sigma (提升企业制造流程能力达到六西格玛水平)	5	2017.02.20-24
Preventive Quality Assurance - Design and Process FMEA (预防性质量保证 – 设计和过程失效模式及后果分析)	1	2017.03.03
Lean production enabled by Industry 4.0 (工业4.0背景下的企业精益生产管理)	2	2017.03.16/17
How to design your production line lean & Intelligent (如何让您的生产线精益化和智能化)	1	2017.03.24

For more information regarding registration process, training outline or other questions, please feel free to contact us via emailing to [training@silu.asia](mailto:training@silu.asia), calling Ms. Yin under +86-(0)512-62967377 or click [www.silu.asia](http://www.silu.asia)

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## Events

### Industry 4.0 Innovation Center OPEN DAY

Since the KIT's China Branch opened the Industry 4.0 Demonstration and Innovation Center in Suzhou last year, there has been a staggering demand for visits and trainings. Due to the 'Made in China 2025' policy, many local companies are eager to learn about the advanced German technology on site in order to transfer it to their own businesses and improve their production. The Industry 4.0 Demonstration and Innovation Center serves as a platform for advanced trainings for Sino-German enterprises in the field of production management, quality management and lean logistics enabled by Industry 4.0.



Theory introduction and Industry 4.0 line demonstration on Open Day Event

In order to give them an insight into GAMI's facilities and trainings, we organized the OPEN DAY on August 25<sup>th</sup>, 2016, we had 15 participating companies. Our unique facilities and Industry 4.0 solutions are part of our consulting services to upgrade your production system to a cyber-physical production with guaranteed tangible benefits. To become a partner or for more information, please do not hesitate to contact Stefan Ruhrmann ([ruhrmann.stefan@silu.asia](mailto:ruhrmann.stefan@silu.asia)).

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We apologize for any inconvenience caused. For further questions, please do not hesitate to contact us.