


# Program Kick-Off Meeting 2025

| Wednesday, 03.09.2025 |  |           | Thursday, 04.09.2025   |  |            |
|-----------------------|--|-----------|--|--|------------|
| time                  | AI production network Showroom,<br>86159 Augsburg, Bgm.-Ulrich-Str. 100  |           | time   | AI production network Showroom,<br>86159 Augsburg, Bgm.-Ulrich-Str. 100  |            |
| 09:30 to<br>10:00     | arrival and registration   |           | 09:00 -<br>09:10   | welcome  |            |
| 10:00 -<br>12:00      | Welcome and details on the organization, structure, and schedule of the<br>Priority Program  |           | 09:10 -<br>09:30   | Modelling of sinter forging under consideration of uncertainty propagation<br><i>Dr.-Ing. Lennart Hinz, Dr.-Ing. Johanna Uthe</i>  | Project 9  |
| 12:00 -<br>13:00      | lunch break  |           | 09:30 -<br>09:50   | Cross-process modelling of a cold forging and machining process chain of an<br>impeller wheel with consideration of specific uncertainties<br><i>Prof. Dr.-Ing. Mathias Liewald, Prof. Dr.-Ing. Hans Christian Möhring</i> | Project 10 |
| 13:00 -<br>13:20      | Modeling of uncertainties in the process chain from the raw material to crimp<br>connector for reverse material and process optimization<br><i>Prof. Dr.-Ing. Thomas Bergs, Prof. Dr.-Ing. Markus Bambach</i>  | Project 1 | 09:50 -<br>10:10   | Methodology for holistic process chain analysis and modeling using the<br>example of bipolar plate production<br><i>Dr.-Ing. Verena Psyk, Prof. Dr.-Ing. Frank Walther</i>   | Project 11 |
| 13:20-<br>13:40       | Model-based property design along the continuous casting, extrusion and bending<br>process chain<br><i>Prof. Dr.-Ing. Noomane Ben Khalifa, Dr.-Ing. Stefanie Sandlöbes-Haut, Prof.<br/>Dr.-Ing. Wolfram Volk</i>   | Project 2 | 10:10 -<br>10:30   | Inverse modelling of the process chain of an ADI component to control<br>process-related distortion and hardening problems<br><i>Dr.-Ing. Christian Schwarz, Prof. Dr.-Ing. Babette Tonn</i>                               | Project 12 |
| 13:40 -<br>14:00      | Analysis and modeling of the process chain for the manufacturing of drilling and<br>threading tools out of powder metallurgical high-speed steel<br><i>Prof. Dr.-Ing. Dirk Biermann, Dr.-Ing. Monika Kipp,<br/>Prof. Dr.-Ing. Sebastian Weber</i>        | Project 3 | 10:30 -<br>11:00   | Grouping of working groups   |            |
| 14:00 -<br>14:20      | Cross-process modeling for the production of functionally graded layer systems by<br>thermal spraying and mechanical post-processing – ProModFun<br><i>Dr. Franziska Bocklisch, Prof. Dr.-Ing. Thomas Lampke,<br/>Prof. Dr.-Ing. Andreas Schubert</i>    | Project 4 | 11:00 -<br>12:00   | lunch break  |            |
| 14:20 -<br>14:50      | coffee break   |           | 12:00 -<br>13:00   | meeting working groups I + II  |            |
| 14:50 -<br>15:10      | Method based multi-criteria optimization of a process chain for hybrid lightweight<br>component production<br><i>Prof. Dr.-Ing. Alexander Brosius, Prof. Dr.-Ing. Ulrich Prah</i>  | Project 5 | 13:00 -<br>14:00   | meeting working groups III + IV  |            |
| 15:10 -<br>15:30      | Holistic process chain modeling for aluminum profile forming<br><i>Prof. Dr. Matthias Faes, Prof. Yannis Korkolis Ph.D.</i>  | Project 6 | 14:00 -<br>14:30   | discussion and closing   |            |
| 15:30 -<br>15:50      | Multi-criteria, comprehensive design of the manufacturing process of aluminum cold<br>plates based on the holistic modeling of the process chain metal forming/laser<br>welding<br><i>Dr.-Ing. Christian Hagenlocher, Dr.-Ing. Kim Rouven Riedmüller</i> | Project 7 |  |  |            |
| 15:50 -<br>16:10      | Inverse optimisation of the die casting straightening process chain with<br>consideration of uncertainties<br><i>Dr.-Ing. Christoph Hartmann, Prof. Dr.-Ing. Philipp Lechner, Prof.<br/>Dr.-Ing. Wolfram Volk</i>  | Project 8 |  |  |            |
| 16:10 -<br>17:10      | Tour of the AI production network  |           |  |  |            |
|                       | Transfer to hotel  |           |  |  |            |
| 19:00                 | Dinner<br>Riegele Wirtshaus, Frölichstraße 26<br>86150 Augsburg  |           |  |  |            |