urbanistic. / Parametric City Model

We are a young start-up with our roots at the TUM Chair of Architecture Informatics. Within our team, we develop the next generation of software tools for urban planning. Our combination of intuitive modelling tools and real-time simulation and analysis, provide planners with direct feedback on all decision-relevant parameters. Our SaaS solution enables architects and planners to test and communicate their planning variants.

Within the IDP, we offer you insights into topics of architecture and urban planning within a real start-up environment. We are always looking for talented people to join our team.

Description
Despite increased opportunities to store and exchange urban planning data in urban planning in semantic 3D city models, these are only suitable to a limited extent for the development of innovative planning tools. For certain analyses, e.g., the simulation of building regulations, data-formats such as CityGML are unsuitable due to their static character and detail level. Therefore, we work on flexible parametric 3D city model concepts developed out of a combination of CityGML and existing 2D data at urbanistic. On this foundation, we develop our interactive tools for urban planning. As the transformation and merging of this data is not always easy, we depend on creative approaches.

In the IDP project, you will help design, extend, and implement existing and new concepts to transform standardized data formats. We develop in Java and Kotlin.

Topics
- Development/expansion of our editor for manual addition/editing of our building model
- Data Integration / Data Matching
- Development of interfaces (CityGML, Topographiedaten, Shapefiles...)

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