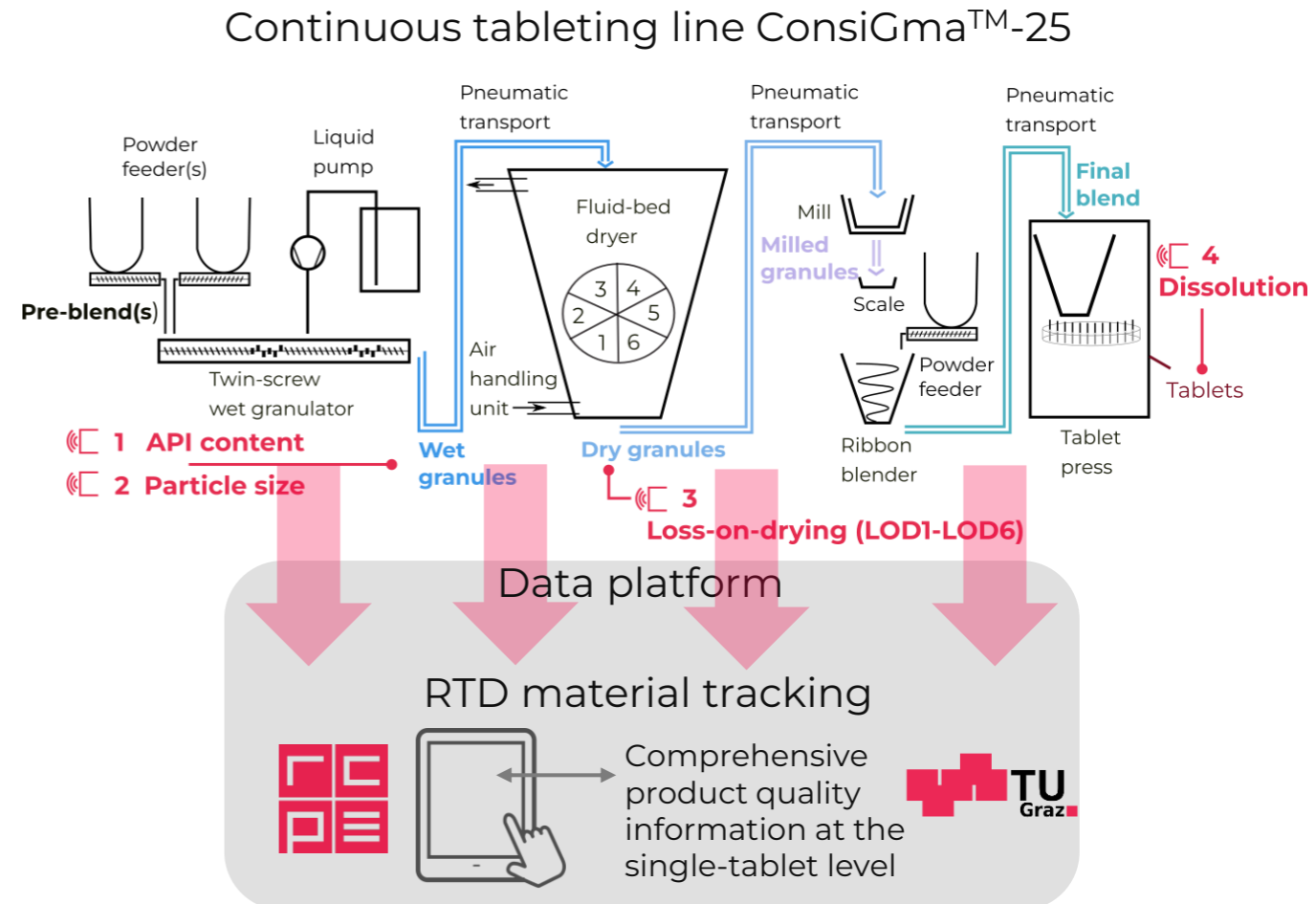


# Strategy for digital real-time release testing (RTRT) in pharmaceutical production

- Design a process monitoring framework using PAT tools and soft sensors
- Develop and apply residence time distribution (RTD) models
- Implement material tracking algorithms to align process data with product characteristics
- Develop a digital RTRT strategy for product quality assessment
- Validate the RTRT strategy using offline quality control methods



Source: Celikovic et al., submitted to European Journal of Pharmaceutics and Biopharmaceutics, 2024