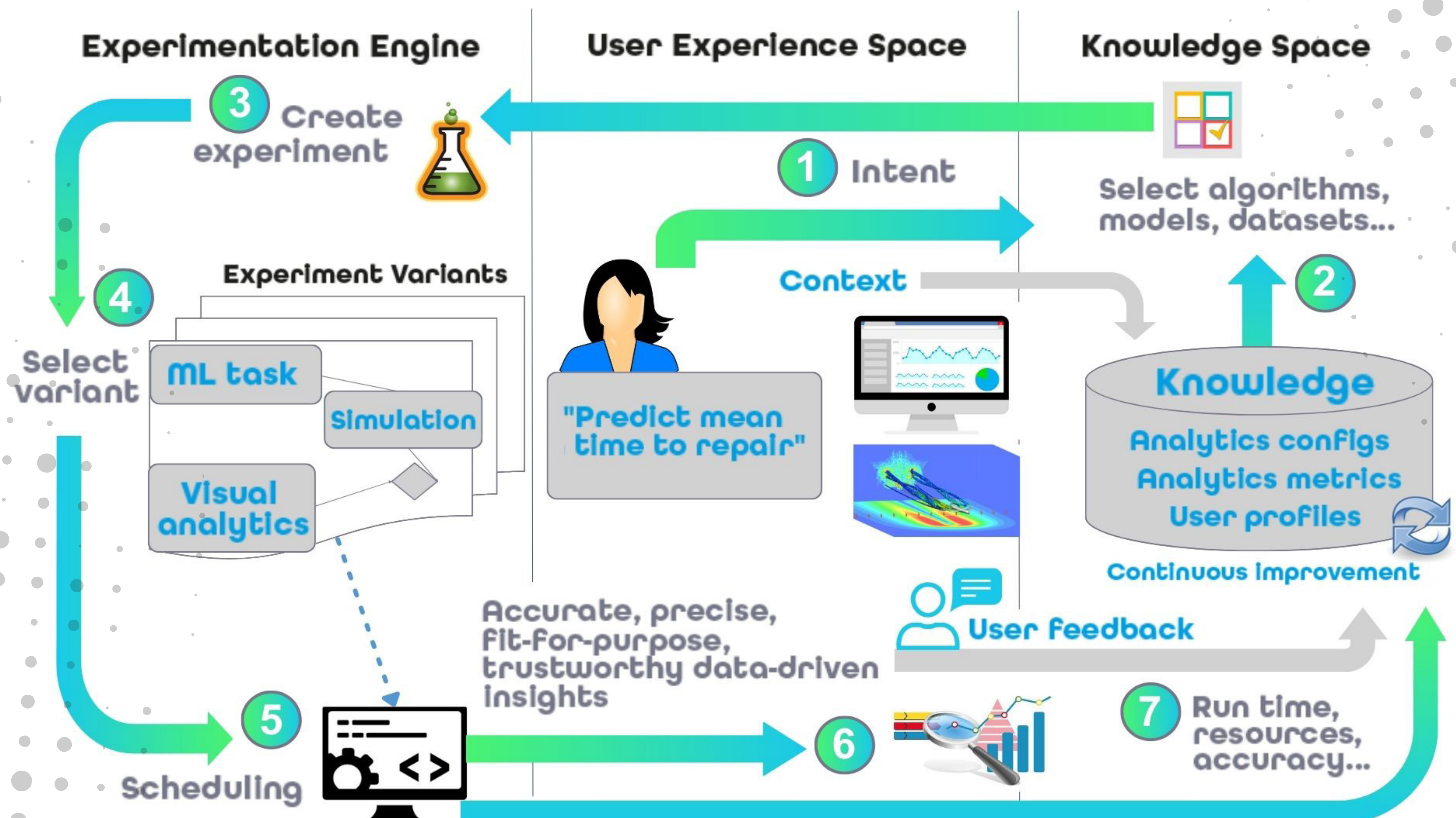




# ExtremeXP

## Experiment Driven and User Experience Oriented Analytics for Extremely Precise Outcomes and Decisions



## Use Cases

### Public Safety

Situational intelligence and decision making for PPDR (Public Protection and Disaster Relief)

### Cybersecurity

Increased cybersecurity situation awareness for efficient threat mitigation

### Crisis Management

Improvement of Flash flood forecasting thanks to the use of AI

### Mobility

Flexible transportation analysis and visualization

### Manufacturing

Failure prevention for manufacturing industry



Experimentation Engine with core artifacts for modeling experiments, enhancing descriptions with context, scheduling analytics workflows, and monitoring execution using system and user metrics.



User Driven AutoML contains ExtremeXP's novel ML research, including simulation-based data augmentation, constraint-aware algorithms, user-preference model selection, continual learning, and optimal ML pipeline deployment in diverse environments.



Analysis-aware Data Integration addresses data-processing challenges, offering solutions for automatic dataset selection and handling data quality issues like missing, incomplete, incorrect, and duplicate data in user-driven workflows.



Extreme Data & Knowledge Management provides secure, distributed management of datasets and knowledge assets, covering the entire lifecycle—from elicitation to sharing—for efficient, secure analytics.



Transparent & Interactive Decision Making boosts user trust by offering explanations of ML/analytics decisions through interactive visuals and AR, enabling users to engage with the experimentation engine.



User-driven Optimization of Complex Analytics captures user intents and feedback through gamification, aligning them with backend analytics and creating personalized user profiles to enhance the ExtremeXP experience.

<https://extremexp.eu>

