

# Personalised Monitoring and Recommendation Services for At-Risk Individuals Employing Machine-Learning and Decision Support

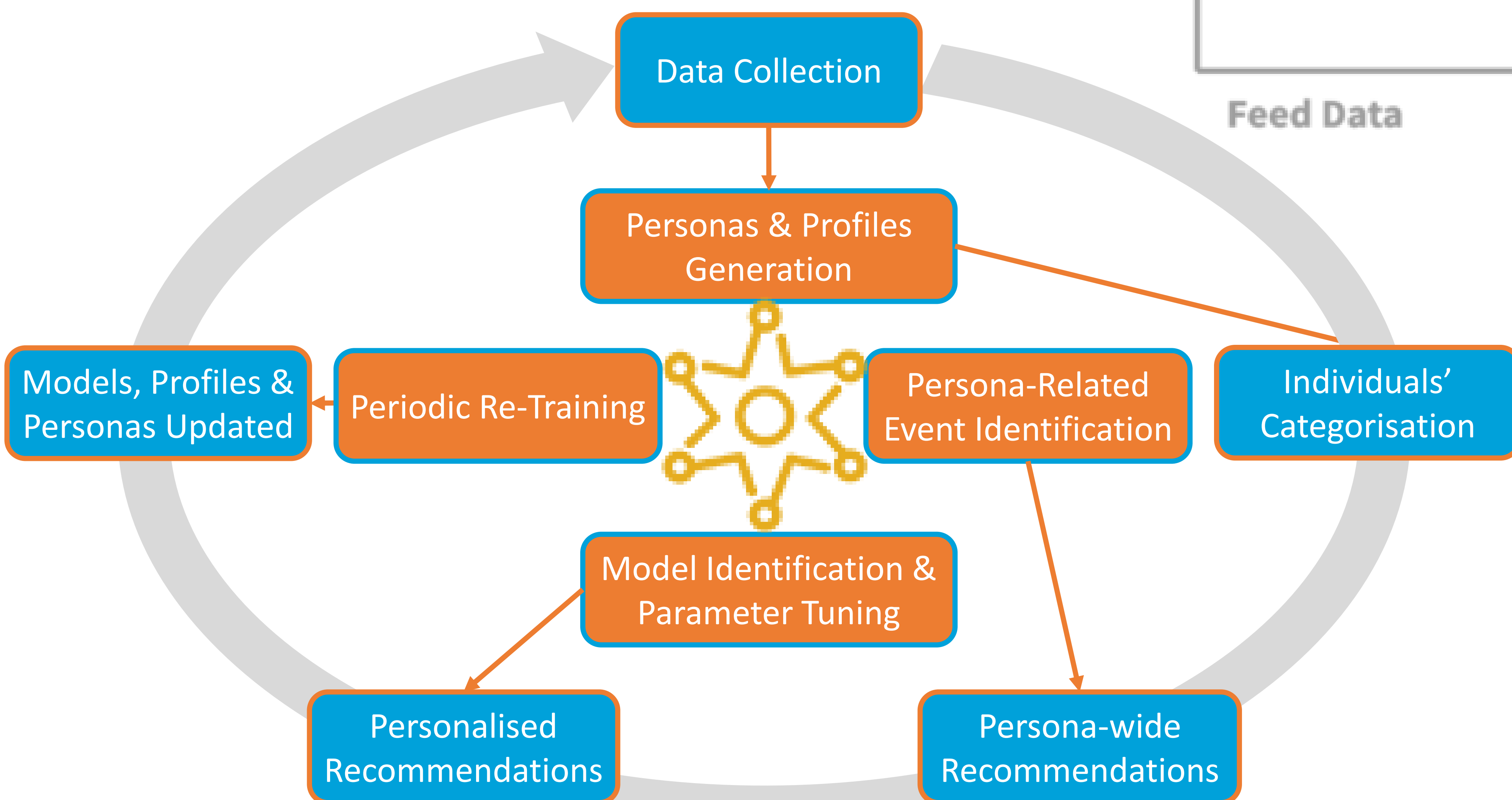


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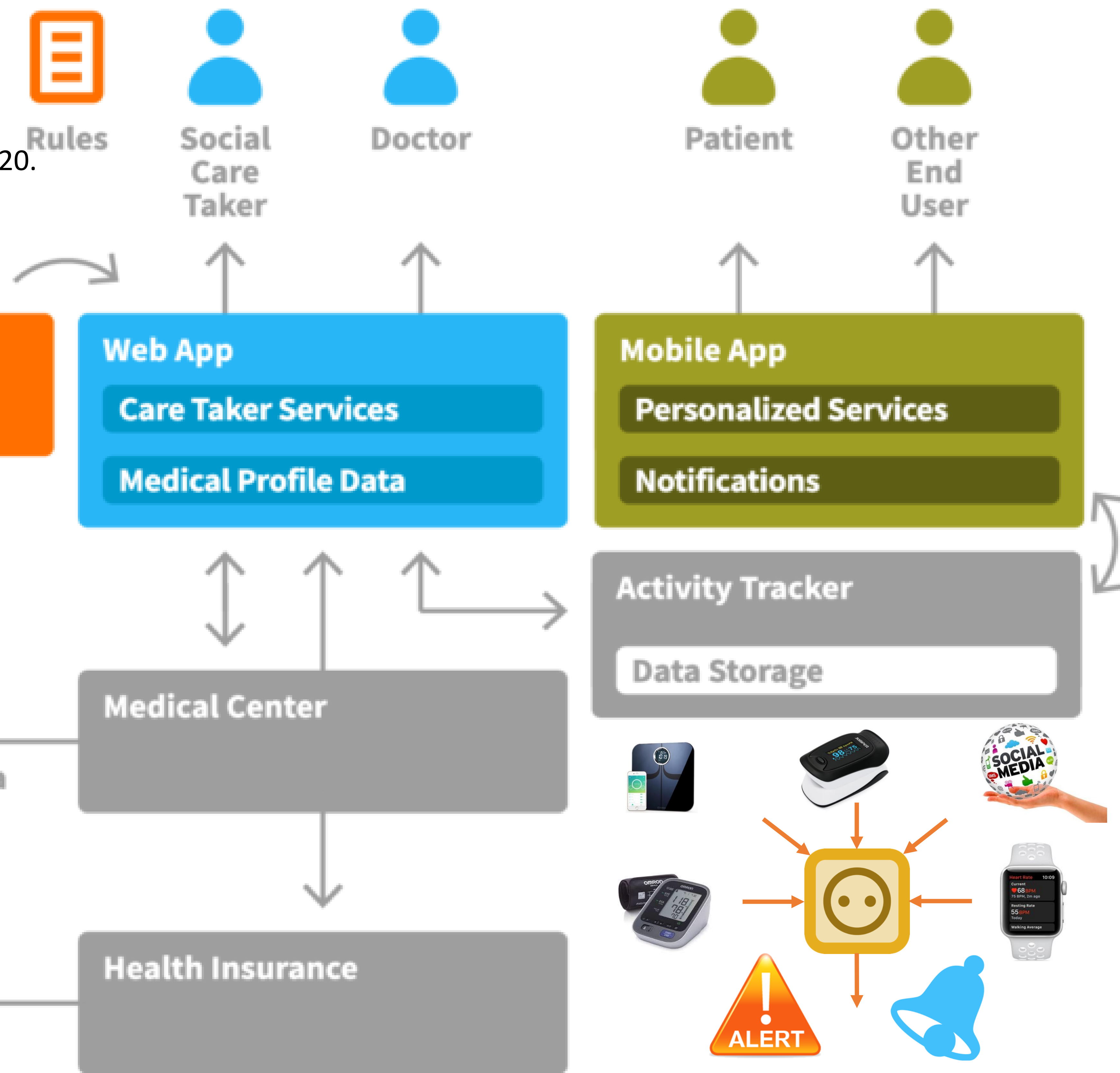
- The ambient assisted living market is estimated to grow to USD 3.96 billion by 2020.
- The total caregiver support market for the period 2016-2020 is estimated at \$20.3 billion.
- The Global Medical Alert Systems Market is expected to reach approximately \$18.5 billion by 2020.
- Revenue of the Smart Homes market worldwide is forecast to 58.58 billion US dollars in 2020.



- Integration of various data sources from diverse domains - public and private - Smart Home, Sensors, Activities, Social Media, Health.
- Simplified and intuitive data pre-processing, curation, analysis and visualization.
- Data Fusion for rule definition and automated knowledge extraction.
- Ambient awareness and localization of event identification.
- Recommendation personalization.
- Integration of value chain – Bringing together Care Service Providers, At-Risk Individuals, and Formal / Informal Carers.



- Continuous monitoring of individuals, model re-training and identification of (risk) of shifting based on independent and/or combined Bio-Measurements.
- Localized Event Identification for Situational Awareness.
- Recommendation Personalization based on Ambient & Environmental Conditions, Personal Activity & Personal Bio-Measurements.
- Pro-Activity instead of Passive Re-activity & Non-Intrusive Comfort Zone Home Automation.



## AEGIS Smart Home & Assisted Living

- Development of a unified pipeline for data acquisition, anonymization, storage and access.
- Development of an extensible data model for collecting the information from diverse information sources.
- Development of the corresponding schedulers and data aggregation mechanisms.
- Exploitation of Big Data analytics, aiming to improve the everyday living and enhance the wellbeing of vulnerable individuals.
- Integration of medical knowledge from health service providers for the generation of personas for the classification of individuals into groups and for the delivery of group-wide notifications.
- Integration of ML analytics for (visual) exploration, clustering and classification of individuals in personas.

