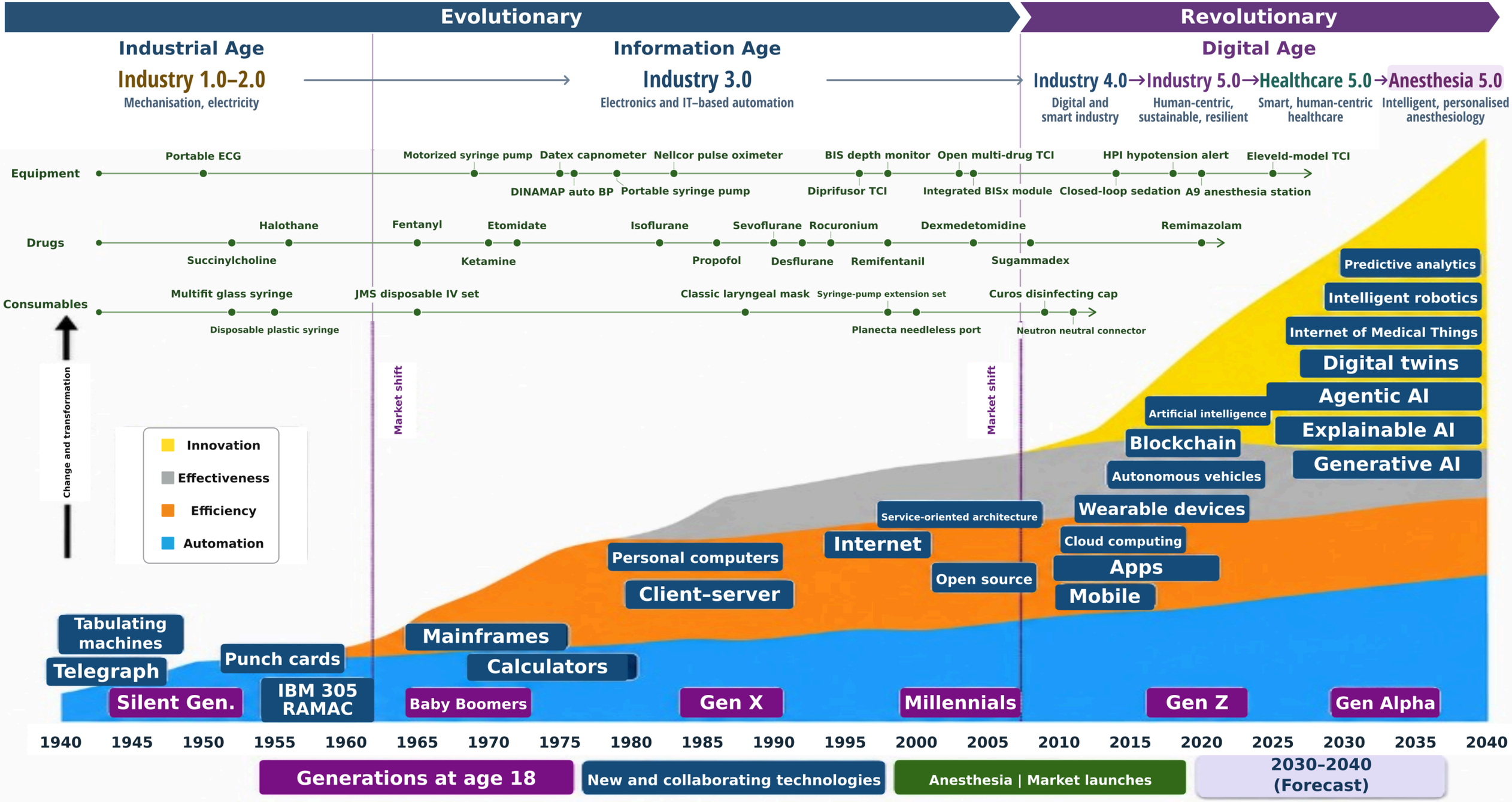

Evolutionary
Revolutionary
Industrial Age
Industry 1.0–2.0
Mechanisation, electricity
Information Age
Industry 3.0
Electronics and IT–based automation
Digital Age
Industry 4.0→Industry 5.0→Healthcare 5.0→Anesthesia 5.0
Digital and smart industry
Human-centric, sustainable, resilient
Smart, human-centric healthcare
Intelligent, personalised anesthesiology
Equipment
Portable ECG
Motorized syringe pump
Datex capnometer
Nellcor pulse oximeter
BIS depth monitor
Open multi-drug TCI
HPI hypotension alert
Eleveld-model TCI
DINAMAP auto BP
Portable syringe pump
Diprifusor TCI
Integrated BISx module
Closed-loop sedation
A9 anesthesia station
Drugs
Halothane
Fentanyl
Etomidate
Isoflurane
Sevoflurane
Rocuronium
Dexmedetomidine
Remimazolam
Succinylcholine
Ketamine
Propofol
Desflurane
Remifentanil
Sugammadex
Consumables
Multifit glass syringe
JMS disposable IV set
Classic laryngeal mask
Syringe-pump extension set
Curos disinfecting cap
Disposable plastic syringe
Planecta needleless port
Neutron neutral connector
Change and transformation
Market shift
Market shift
Innovation
Effectiveness
Efficiency
Automation
Predictive analytics
Intelligent robotics
Internet of Medical Things
Digital twins
Agentic AI
Artificial intelligence
Explainable AI
Blockchain
Generative AI
Autonomous vehicles
Wearable devices
Service-oriented architecture
Cloud computing
Internet
Personal computers
Apps
Open source
Client–server
Mobile
Tabulating machines
Mainframes
Telegraph
Punch cards
Calculators
Silent Gen.
IBM 305 RAMAC
Baby Boomers
Gen X
Millennials
Gen Z
Gen Alpha
1940
1945
1950
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
2025
2030
2035
2040
Generations at age 18
New and collaborating technologies
Anesthesia | Market launches
2030–2040 (Forecast)