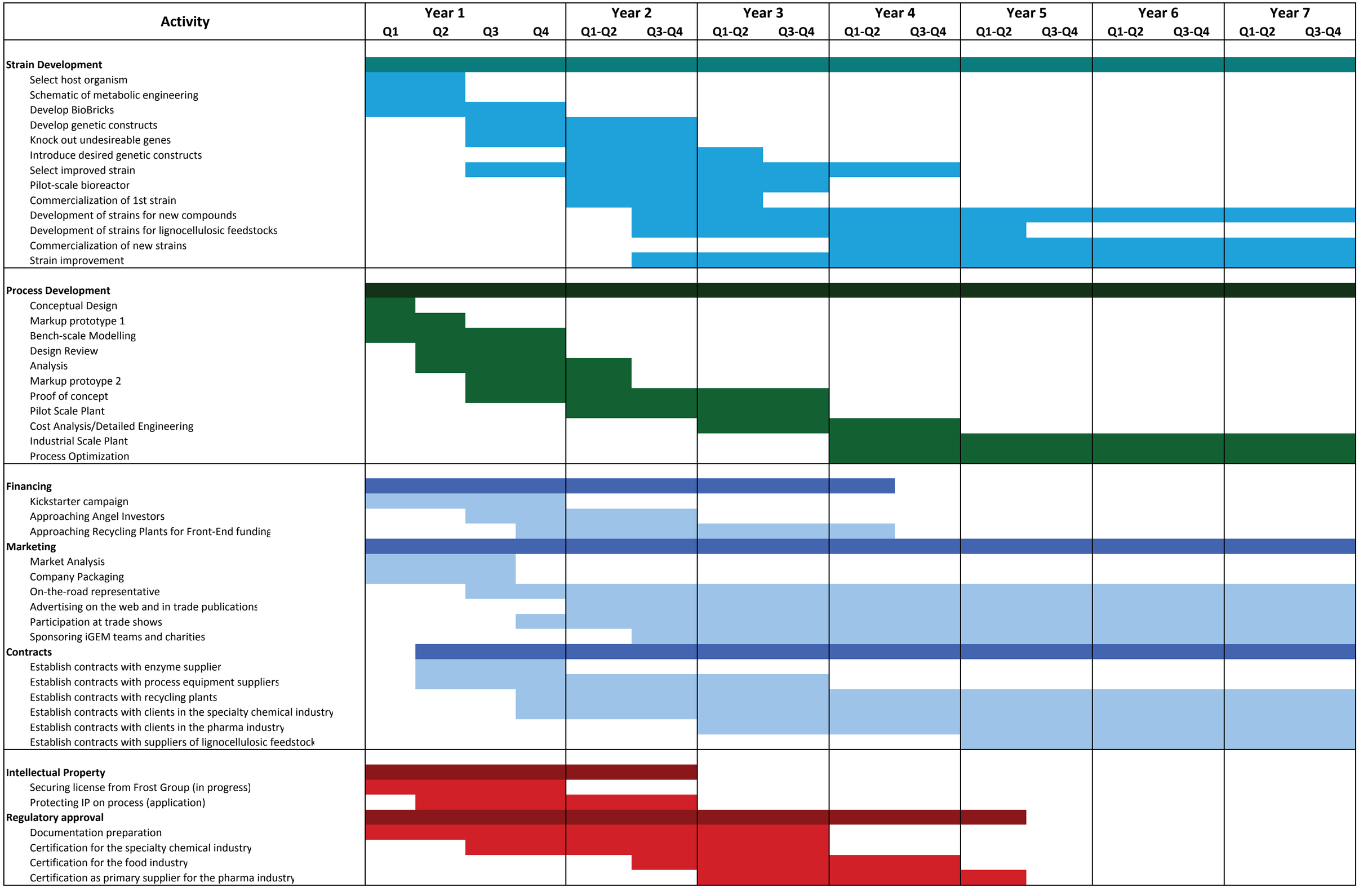
Activity
Year 1
Q1
Q2
Q3
Q4
Year 2
Q1-Q2
Q3-Q4
Year 3
Q1-Q2
Q3-Q4
Year 4
Q1-Q2
Q3-Q4
Year 5
Q1-Q2
Q3-Q4
Year 6
Q1-Q2
Q3-Q4
Year 7
Q1-Q2
Q3-Q4
Strain Development
Select host organism
Schematic of metabolic engineering
Develop BioBricks
Develop genetic constructs
Knock out undesireable genes
Introduce desired genetic constructs
Select improved strain
Pilot-scale bioreactor
Commercialization of 1st strain
Development of strains for new compounds
Development of strains for lignocellulosic feedstocks
Commercialization of new strains
Strain improvement
Process Development
Conceptual Design
Markup prototype 1
Bench-scale Modelling
Design Review
Analysis
Markup protoype 2
Proof of concept
Pilot Scale Plant
Cost Analysis/Detailed Engineering
Industrial Scale Plant
Process Optimization
Financing
Kickstarter campaign
Approaching Angel Investors
Approaching Recycling Plants for Front-End funding
Marketing
Market Analysis
Company Packaging
On-the-road representative
Advertising on the web and in trade publications
Participation at trade shows
Sponsoring iGEM teams and charities
Contracts
Establish contracts with enzyme supplier
Establish contracts with process equipment suppliers
Establish contracts with recycling plants
Establish contracts with clients in the specialty chemical industry
Establish contracts with clients in the pharma industry
Establish contracts with suppliers of lignocellulosic feedstock
Intellectual Property
Securing license from Frost Group (in progress)
Protecting IP on process (application)
Regulatory approval
Documentation preparation
Certification for the specialty chemical industry
Certification for the food industry
Certification as primary supplier for the pharma industry