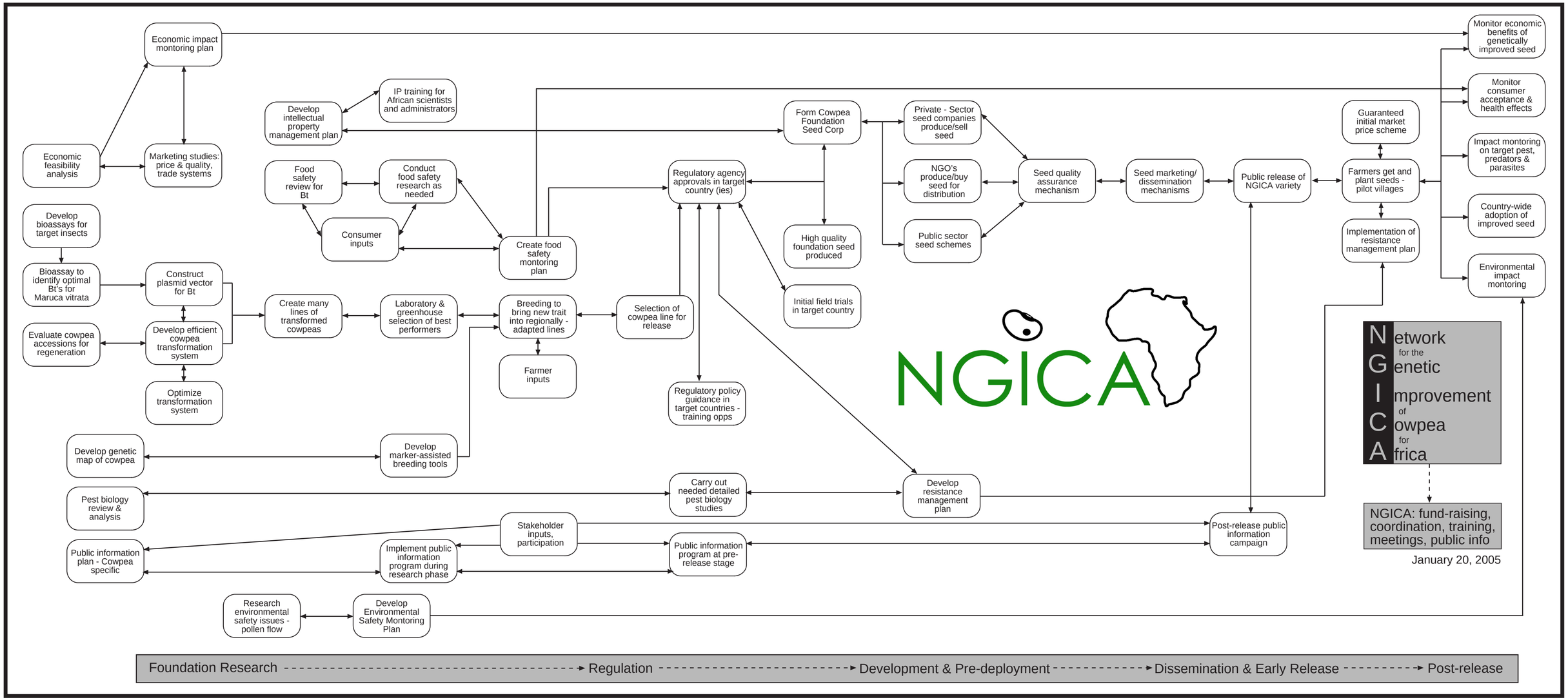
Economic impact montoring plan
Monitor economic benefits of genetically improved seed
Monitor consumer acceptance & health effects
Impact montoring on target pest, predators & parasites
Country-wide adoption of improved seed
Environmental impact montoring
Economic feasibility analysis
Marketing studies: price & quality, trade systems
Develop intellectual property management plan
IP training for African scientists and administrators
Food safety review for Bt
Conduct food safety research as needed
Consumer inputs
Create food safety montoring plan
Regulatory agency approvals in target country (ies)
Form Cowpea Foundation Seed Corp
High quality foundation seed produced
Initial field trials in target country
Private - Sector seed companies produce/sell seed
NGO's produce/buy seed for distribution
Public sector seed schemes
Seed quality assurance mechanism
Seed marketing/ dissemination mechanisms
Public release of NGICA variety
Guaranteed initial market price scheme
Farmers get and plant seeds - pilot villages
Implementation of resistance management plan
Develop bioassays for target insects
Bioassay to identify optimal Bt's for Maruca vitrata
Construct plasmid vector for Bt
Evaluate cowpea accessions for regeneration
Develop efficient cowpea transformation system
Optimize transformation system
Create many lines of transformed cowpeas
Laboratory & greenhouse selection of best performers
Breeding to bring new trait into regionally - adapted lines
Farmer inputs
Selection of cowpea line for release
Regulatory policy guidance in target countries - training opps
NGICA
Network for the Genetic Improvement of Cowpea for Africa
NGICA: fund-raising, coordination, training, meetings, public info
January 20, 2005
Develop genetic map of cowpea
Develop marker-assisted breeding tools
Pest biology review & analysis
Carry out needed detailed pest biology studies
Develop resistance management plan
Stakeholder inputs, participation
Public information plan - Cowpea specific
Implement public information program during research phase
Public information program at pre-release stage
Post-release public information campaign
Research environmental safety issues - pollen flow
Develop Environmental Safety Montoring Plan
Foundation Research
Regulation
Development & Pre-deployment
Dissemination & Early Release
Post-release