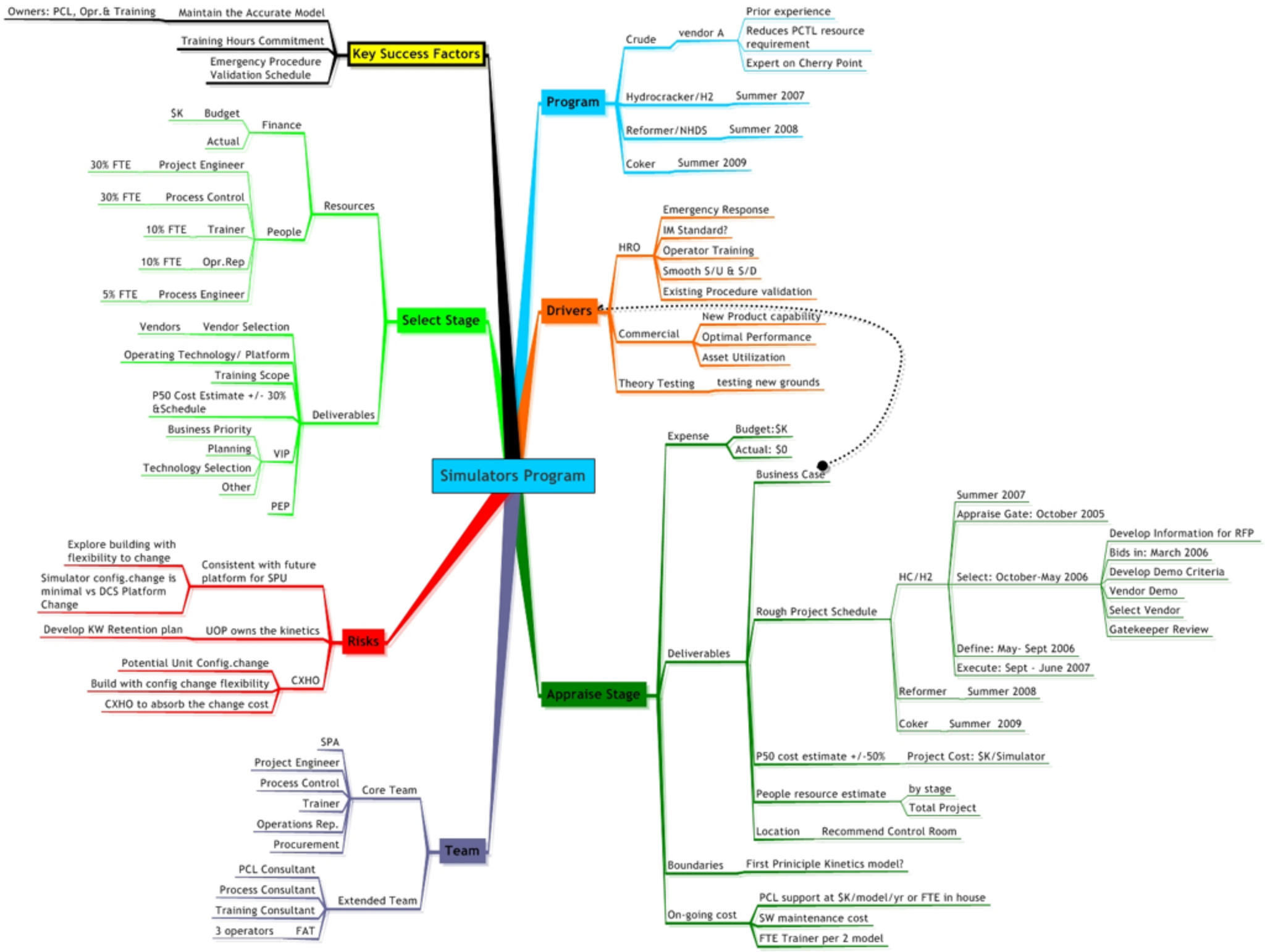
Simulators Program
Key Success Factors
Owners: PCL, Opr.& Training
Maintain the Accurate Model
Training Hours Commitment
Emergency Procedure Validation Schedule
Program
Crude
vendor A
Prior experience
Reduces PCTL resource requirement
Expert on Cherry Point
Hydrocracker/H2
Summer 2007
Reformer/NHDS
Summer 2008
Coker
Summer 2009
Drivers
HRO
Emergency Response
IM Standard?
Operator Training
Smooth S/U & S/D
Existing Procedure validation
Commercial
New Product capability
Optimal Performance
Asset Utilization
Theory Testing
testing new grounds
Select Stage
Resources
Finance
$K
Budget
Actual
People
30% FTE
Project Engineer
30% FTE
Process Control
10% FTE
Trainer
10% FTE
Opr.Rep
5% FTE
Process Engineer
Deliverables
Vendors
Vendor Selection
Operating Technology/ Platform
Training Scope
P50 Cost Estimate +/- 30% &Schedule
VIP
Business Priority
Planning
Technology Selection
Other
PEP
Risks
Consistent with future platform for SPU
Explore building with flexibility to change
Simulator config.change is minimal vs DCS Platform Change
UOP owns the kinetics
Develop KW Retention plan
CXHO
Potential Unit Config.change
Build with config change flexibility
CXHO to absorb the change cost
Team
Core Team
SPA
Project Engineer
Process Control
Trainer
Operations Rep.
Procurement
Extended Team
PCL Consultant
Process Consultant
Training Consultant
3 operators
FAT
Appraise Stage
Expense
Budget:$K
Actual: $0
Deliverables
Business Case
Rough Project Schedule
HC/H2
Summer 2007
Appraise Gate: October 2005
Select: October-May 2006
Develop Information for RFP
Bids in: March 2006
Develop Demo Criteria
Vendor Demo
Select Vendor
Gatekeeper Review
Define: May- Sept 2006
Execute: Sept - June 2007
Reformer
Summer 2008
Coker
Summer 2009
P50 cost estimate +/-50%
Project Cost: $K/Simulator
People resource estimate
by stage
Total Project
Location
Recommend Control Room
Boundaries
First Priniciple Kinetics model?
On-going cost
PCL support at $K/model/yr or FTE in house
SW maintenance cost
FTE Trainer per 2 model