

1701 - Joel Theatrical (Fire curtain)	
BENCHMARKS	ACTIVITIES BY YEAR
Internet searches: 1 Articles	2017
Patent searches: 4 patents	'1-1
	Activity 1
OBJECTIVES	RESULTS
Cost: \$	
Eliminate counter weights: 1 Yes 1/ No 0	
maximum speed: 50 cm/s	
Minimum drop speed: 30 sec	
UNCERTAINTIES & KEY VARIABLES	CONCLUSIONS
1 - Technological uncertainty	
bolts to engage drum & spin when removed	
methods to remove chain from sprocket	
remove sprocket from limit switch	
	METHODS
Analysis	
Trials	4
Prototypes	
Lines of code	
	COSTS
Hours	280
Materials \$	7500
Subcontractor \$	

1702 - Novalia (Wind turbines)	
BENCHMARKS	ACTIVITIES BY YEAR
	2017
	'1-1
Patent searches: 11 patents	Activity 1
OBJECTIVES	RESULTS
Turbine power increase: 240 %	
UNCERTAINTIES & KEY VARIABLES	CONCLUSIONS
1 - Technological uncertainty	
blade shapes & orientations	
	METHODS
Analysis	
Trials	
Prototypes	
Lines of code	
	COSTS
Hours	550
Materials \$	12000
Subcontractor \$	

1703 - Robotx Solutions Inc.	
BENCHMARKS	ACTIVITIES BY YEAR
(none)	2017
	'1-1
	Activity 1
OBJECTIVES	RESULTS
Increase safety: ? method to secure trays: ?	
UNCERTAINTIES & KEY VARIABLES	CONCLUSIONS
1 - Technological uncertainty	?
	METHODS
Analysis	100
Trials	10
Prototypes	
Lines of code	
	COSTS
Hours	400
Materials \$	
Subcontractor \$	

1704 - Lifechoice	
BENCHMARKS	ACTIVITIES BY YEAR
Internet searches: 36 Articles	2017
Potential components: 8 products	'1-1
Queries to experts: 5 responses	Activity 1
OBJECTIVES	RESULTS
Arterial plaque reduction: 95 %	98
Replace intravenous with oral: 1 Yes 1/ No 0	0
UNCERTAINTIES & KEY VARIABLES	CONCLUSIONS
1 - Technological uncertainty	
antagonistic effects of ingredients	Y
EDTA vs DMSA	Y
effects of chelation process	Y
	METHODS
Analysis	100
Trials	
Prototypes	
Lines of code	
	COSTS
Hours	200
Materials \$	
Subcontractor \$	

1705 - Formadrain liner development	
BENCHMARKS	ACTIVITIES BY YEAR
(none)	2017
	'1-1
	Activity 1
OBJECTIVES	RESULTS
Thickness: 4 mm	
Steaming time to activate: 60 min	70
Open time : 60 days	62
Cost : 65 \$/m	
Diameter range: 15 cm	
Weight: 2.6 kg/m	
Stress resistance: 11 kg/mm	
UNCERTAINTIES & KEY VARIABLES	CONCLUSIONS
1 - Technological uncertainty	
chuck design	Y
composition of form	Y
mold configurations & design	Y
	METHODS
Analysis	460
Trials	23
Prototypes	8
Lines of code	
	COSTS
Hours	1072
Materials \$	38800
Subcontractor \$	23500

1706 - Flavornet			
BENCHMARKS	ACTIVITIES BY YEAR		
Internet searches: 10 Articles	2017		
Patent searches: 1 patents	'1-1	'1-2	'1-3
	TCC judgment	credibility	5 questions
OBJECTIVES	RESULTS		
Sterol solubility: 40 mg/oz	22		
Shelf life: 12 months	12		
Suspension fall out: 2 %	38		
UNCERTAINTIES & KEY VARIABLES	CONCLUSIONS		
1 - Technological uncertainty			
emulsifier integration	Y		
ingredients	Y		
shearing methods	Y		
temperatures	Y		
	METHODS		
Analysis	122		
Trials	8		
Prototypes			
Lines of code			
	COSTS		
Hours	346		
Materials \$	6300		
Subcontractor \$	2500		