Lean Innovation in Government

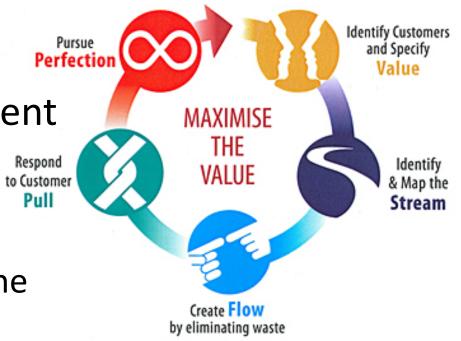




Lean Enterprise and Lean Start-up In Government

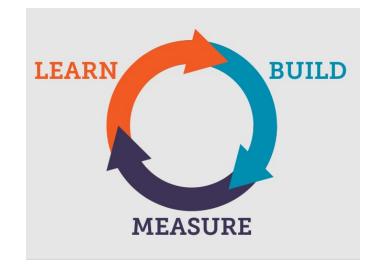
The Promise of Lean

- Increase customer value with fewer resources
- Eliminate waste
- Continuous improvement
- Honor employees
 intelligence
 - From blame to fixing the system
 - Horizontal communication to fix root causes



The Promise of the Lean Startup

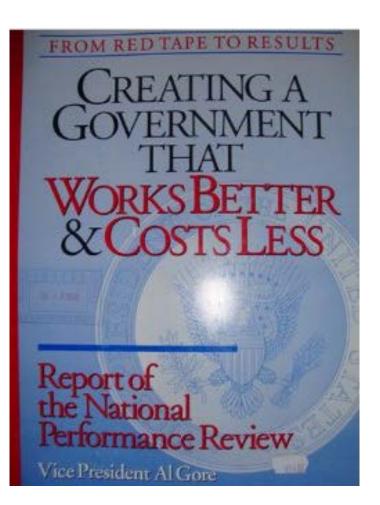
- Faster, cheaper, better innovation
- Better fit with customer needs
 - Testing rapid prototypes with customers
 - Measure progress
 - Rapid learning from inexpensive mistakes

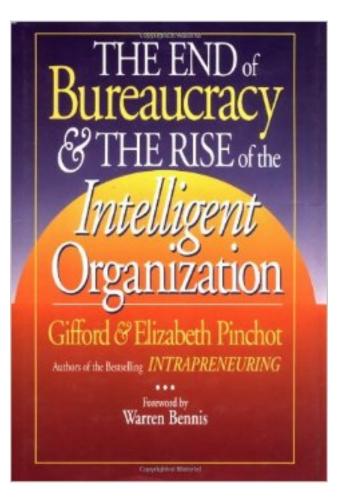


• A home for the entrepreneurial spirit

Reinventing the Forest Service 1994



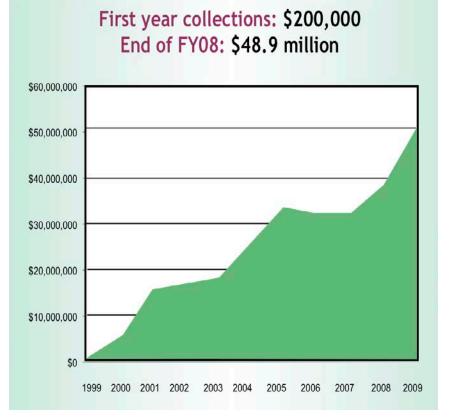




Enterprise Team System Implemented in 1998

- Teams of internal service suppliers
- Freedoms much like entrepreneurs
- Regulated by pull from the forests

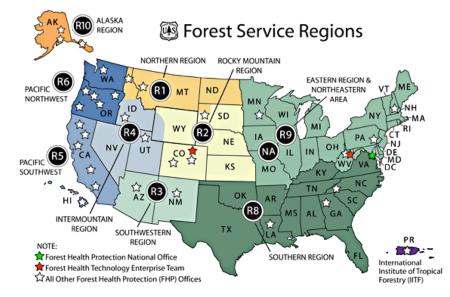
1.8 Times as Productive





The Forest Service

- 9 Regions
- 154 National Forests
- 20 National Grasslands
- 8 Research Stations



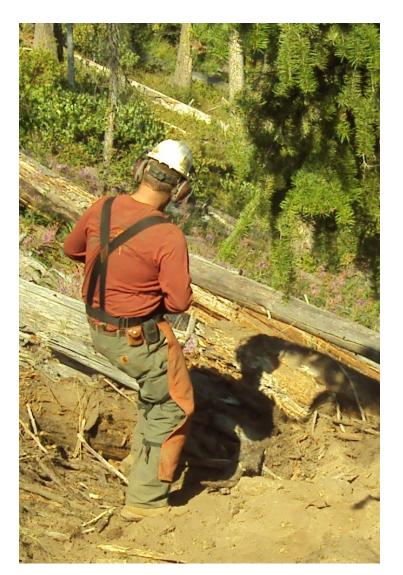






Forest Service Enterprise Teams

- Restoration biology
- Recreational planning
- Conflict resolution
- Road and trail building
- Wildlife biology
- IT services
- Archeology services
- NEPA assessments



Forest Supervisor Choice

- Ways to fill a need
 - 1. Hire someone directly
 - 2. Service from regional or national staffs
 - 3. Hire external contractor
 - 4. Hire an Enterprise Team
- Enterprise Teams
 - No allocated budget
 - No mandated customers
 - Full cost accounting





Applying science of fire Business services Planning

How it Works

- Teams may sell to anyone in the agency
- The teams set their own prices
- The teams choose what services to sell
- The teams choose their customers
- Teams choose their members.

- Full cost recovery
- Customers have several alternatives



The Enterprise Bank

- The team stores revenue in an internal bank account
- Funds remain until spent: Not zeroed out at end of year
 Heijunka: leveling the flow
- Use the funds for any legitimate business purpose.
 - Doers decide
 - HR sets salaries and bonuses.





Team Freedom





- Solvent teams can't be fired
- Insolvent teams dissolved
- Control by customers, not bosses
- Freedom is the great reward

Enterprise Reduces Muri: Overburden

- Reduces peaks and valleys

 Multiple customers
 Cross training
- Scale & standard processes
 - Learning curve
 - Efficiency
- Customers, not power games
 - Each service is valuable or else
 - Free from hierarchical stagnation
 - Can adapt to changing demand



CARS Team

- Analyses road maintenance challenges
 - Prevents erosion
 - Reduces landslides
 - Prioritizes maintenance
- Standard process
 - Fieldwork, data entry forms, analysis, report
 - 4 Kilometers of road analyzed in a day: \$2500
- Standardization & Scale
 - Reduce errors and cost



Enterprise Reduces Mura: Variation

- For Customers: JIT services for the agency
 - Pull "What you need when you want it"
 - Avoid purchasing dept. delay
 - Takt time of agency



Load Leveling Inside Internal Services

- 80 % of work in any large organization provides services to an inside customer
- Demand for services fluctuates
- Enterprise levels load
 - Multiple customers
 - Cross training
 - Process improvement



Reduces Muda: Waste

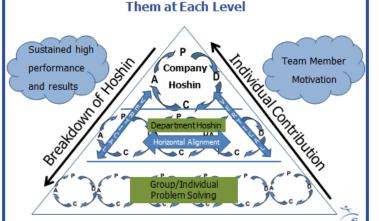
- 1.8 times as productive as average employee
 - 1. Clear service specifications
 - 2. Pull and load leveling
 - 3. Customer vendor relationship
 - 4. Fast, honest feedback
 - 5. Freedom to innovate
 - 6. Full cost accounting
- Carry learnings from forest to forest





Rocky Mountain Research Station Hoshin Planning

- Forest Service Strategic Goals
 - Sustain Our Nation's Forests and Grasslands.
 - 2. Deliver Benefits to the Public.
 - 3. Apply Knowledge Globally.
 - 4. Excel as a High-Performing Agency



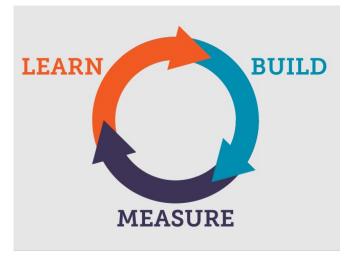
Hoshin Planning Breaking Down Company Problems and Solving

- Every team's business plan includes how serving those goals
- Enterprise creates high-performance

Enterprise and the Lean Start-up

- Frequent experiments
 - Rapid prototypes
 - Minimal Viable Products
 - Striving for perfection
- Validated Learning
 - Test your assumptions
 - Learn what works; discard what doesn't
 - Accelerate the feedback loop
- Innovation Accounting
 - Measure learning
 - Set milestones
 - Measure progress





Enterprise Embodies Many Lean Principles

- Specify customer needs
- Governed by Pull
- Rapid feedback loops
- Leveling workload
- Collaborative teamwork across boundaries
- Kaizen

1.8 Times as Productive



Digital Visions Using software to solve complex Business Problems

The Benefits of Free Intraprise to a Government

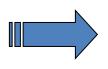
- Innovation in services
- Lower cost
- Less waste
- Better service to public
- Elimination of the excess capacity needed to staff for peaks
- Employee enthusiasm and energy



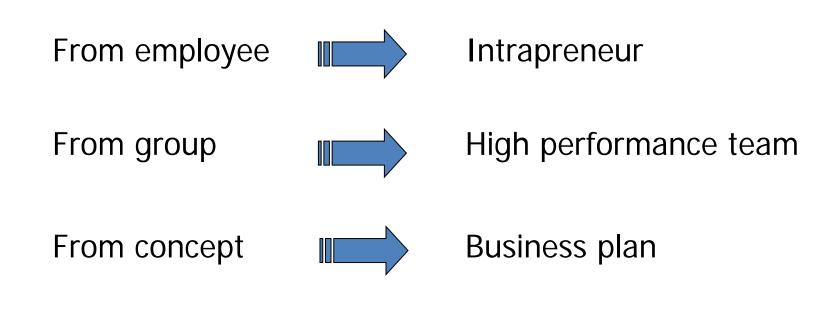
The School for Intrapreneurs



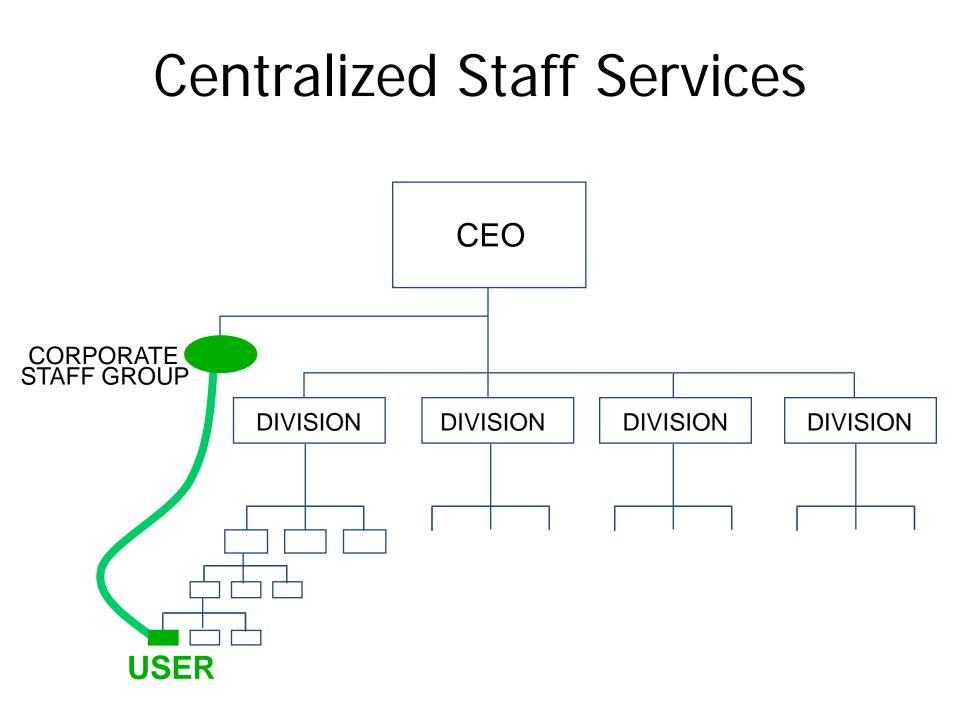
Purpose

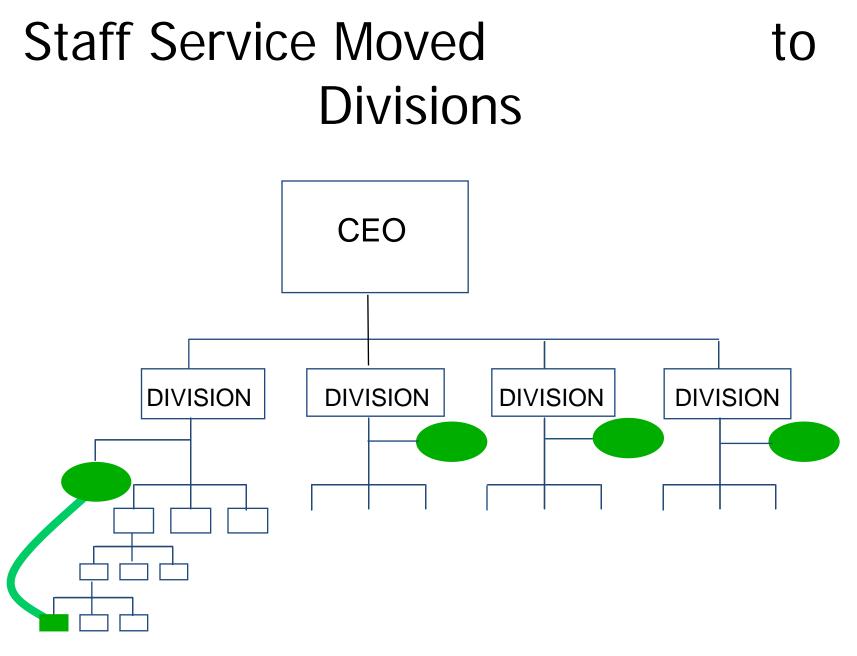




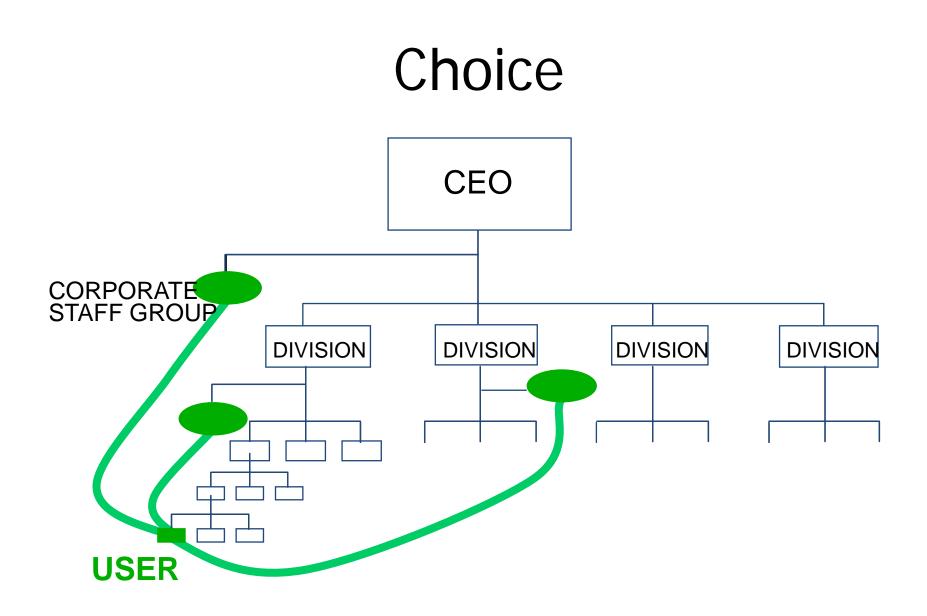


Launched 800 Products and Businesses





USER



Centralization with Choice CEO **DIVISION DIVISION** DIVISION DIVISION CHOICE **USER**

The Intelligent Organization

