



Do More with Less: The Power of Automation Presented by
Janelle Rau
and
Tom Jakobsen



#### Janelle Rau

#### Deputy Chief Executive Officer – County of Mendocino



Ms. Rau serves as a liaison and to all County government operational leaders and elected officials, sits as a member of the County's Leadership Team dedicated to implementing a high performance organization model in the County, and manages the Executive Office's Central Services, Information Services, and Clerk of the Board/Board of Supervisors Divisions, including:

- Assessment and implementation of centralization and decentralization of government operations, tasks, and departmental responsibilities.
- Program development including team participation in state cannabis program development, implementation, and enforcement.
- Implementation of an automated permitting program involving multiple government processes and operations.
- Operational improvements associated with the County's Emergency Operations Center (EOC), including updating and replacing outdated technology, and implementing operational guidelines.
- Executive sponsor for the development and implementation of a Technology Master Plan.

#### Tom Jakobsen

Partner, IT Support and Infrastructure Practice Leader, ClientFirst

Mr. Jakobsen has over 35 years of experience in the information technology arena. He serves as the IT Strategic Advisor for the County of Mendocino.

#### Sample Clients/Projects



- Specialties include:
  - IT Operations Management
  - Contract and Interim CIO/IT Management
  - IT Staffing
  - Cybersecurity
  - Disaster Recovery
  - Project Management
  - Assessments, Strategy, and Planning

#### TODAY'S TOPICS

- Background
  - County of Mendocino
  - Why is this important?
- Efficiency and Automation
  - Measurement & Metrics
  - Business Applications
  - Technical Applications
- Summary
- Q&A





Trends That Are Here To Stay

Background

#### **County of Mendocino**

- Rural county on California's North Coast
  - 3,878 square miles
  - 88,018 population as of 2017
  - About 23 residents/sq. mi.
  - 3 satellite locations
- Total Budget: \$350MM
  - Discretionary revenue:\$80MM
- 1,200 Total Staff
  - 26 IT staff



#### County of Mendocino - Goals

- Board of Supervisors made increased efficiency a formal goal in early 2019
- BOS has emphasized investment in labor & wages with direction to operationally downsize
- Hiring freeze for nonessential positions
- Need to become more efficient!!!



#### County of Mendocino - Goals

- Realizing the need to become more efficient:
  - Presented an IT Strategic Plan to the BOS in November, 2018
    - 130 initiatives
    - Many potential areas for efficiency gains
    - Initial studies indicated over 120,000 hours could be gained
    - Estimated savings through automation of \$4,462,000!



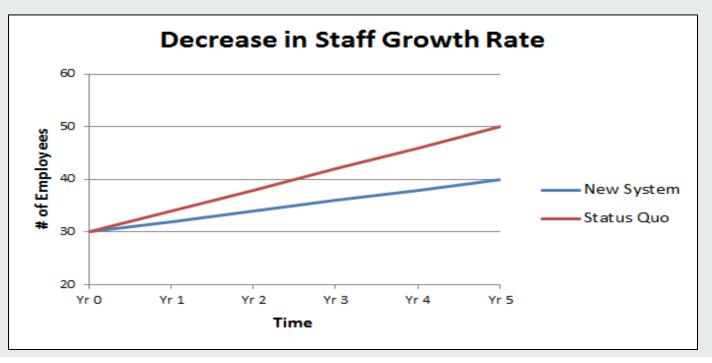


How We Think About Efficiency

# Metrics and Measurement

#### View of Efficiency Gains

- Demand for services, regulation and information requests continue to expand
- We typically look to efficiency gains to decrease staff growth



#### Justifying Improvements Through Measurement

- Maybe a study will be enough?
- A document management feasibility study by the North Dakota IT Department found:
  - An organization that scans 600 documents per day can have the following benefits:
    - An ROI payback period of 15 months
    - Gained productivity of almost \$114,375
    - Subsequent annual savings of \$110,295
    - An overall three-year benefit impact of \$531,990
    - Saved \$36,556 in annual costs when compared to manually storing and managing documents

#### If Not, Let's Build Our Own Measure

 For staff time, we tend to develop an average hourly rate = pay rate + total benefits

	Average Salary	Overhead %	Total Annual Comp
Total Annual Comp	\$60,000	41.15	\$84,750

	Total Annual Comp	Hours	Hourly Rate
Total Annual Comp	\$84,750	2080	\$40.75

#### If Not, Let's Build Our Own - IT Measure

• For IT staff time, we often remove admin. time, which is always at least 20%

	Average Salary – IT Technician	Overhead %	Total Annual Comp
Total Annual Comp	\$65,000	41.15	\$91,747

	Total Annual Comp	Hours	Hourly Rate
Total Annual Comp	\$91,747	2080 - 416 = 1664	\$55.14



Real Long-Term
Savings Are In
Application
Improvements!

### **Application Efficiencies**

#### It's About the APPLICATIONS!

Purpose/Operation













- 100-200 applications
- 80%+ are software
- Many systems are highly underutilized
- Need more effective Application Management and Training
  - Productivity
  - Efficiencies
  - Customer Service
  - Transparency Improvements

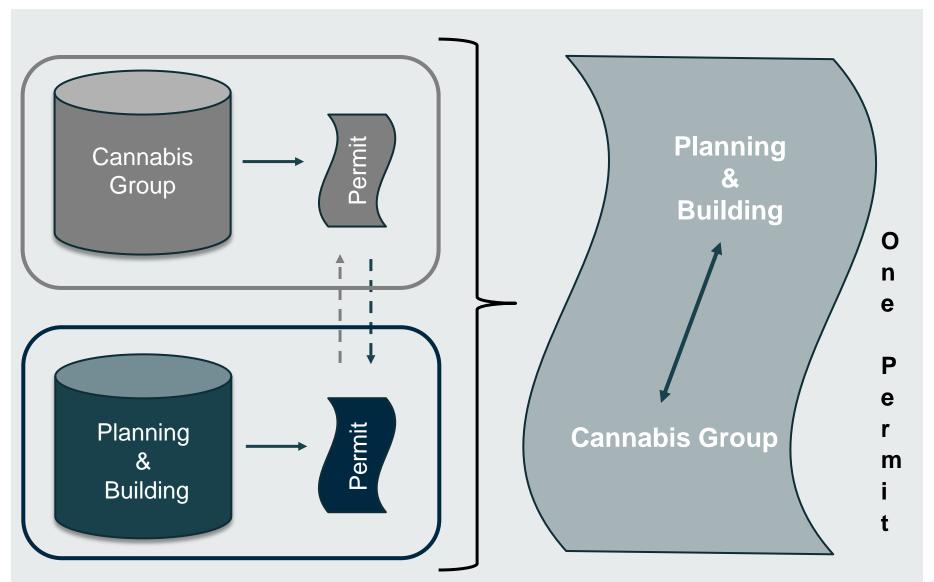
## Cannabis Improvements



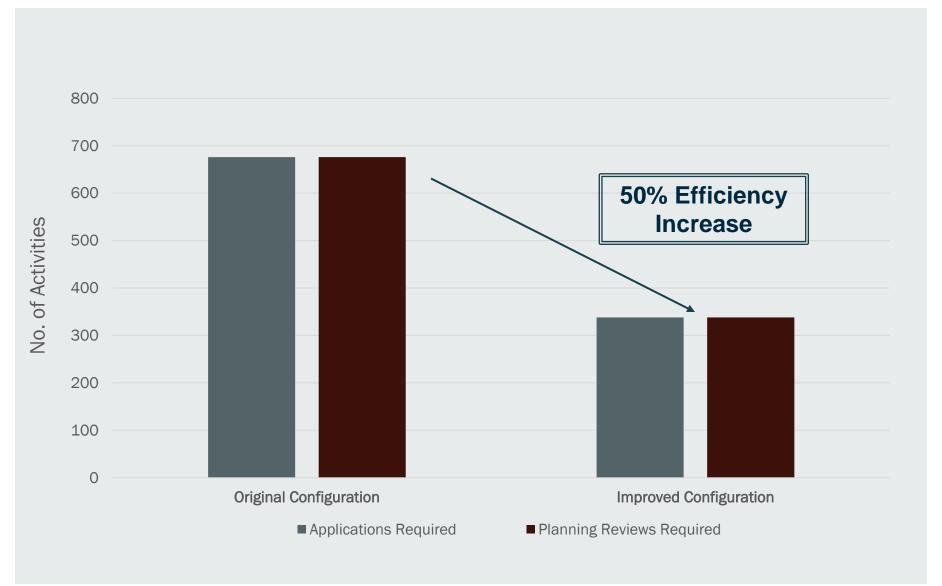
#### Challenges Faced

- Establishing regulations and processes the public can follow
- Incorporating rules for legacy and new cultivation sites
- Establishing a process that includes reviews from several departments with different timelines
- Establishing regulations and processes for permit renewals

#### **Process Improvements**



#### **Increased Efficiency**



#### Continuous Improvements

- Simplify application process as much as possible
- Consolidate work steps and forms
- Simplify requirements for permit renewals
- Streamline permit processing to shorten time between application and issuance
- Improve data capture to reduce time spent manually generating reports

#### Procurement Processes Review

- Scope of Work:
  - Requisitions
  - Travel Expense Reimbursement
  - Bids Management
  - Purchasing
  - ContractsManagement
  - Payables (invoice approval processing)
  - Check Requests



#### **Procurement Processes Improve**

#### Results:

- 53 specific improvements
- Many save an hour/staff/week and affect 20 staff
- Some improvements may affect 100 staff, twice/week
- Total estimated savings = \$1,450,000+



#### **Procurement Process ROI Examples**

#	Initiative & Description of Improvement/Benefit	Recommended Change
	Requisitions and Purchase Orders	
1	printed by email to the Central Services, but still have to hand deliver the requisition form to Central Services	Eliminate the need for a requisition to be printed and routed within Central Services by incorporating the Admin Services Manager and Deputy CEO approvals into Munis' approval workflow.
2	Auditor's Office along with other documentation (e.g., W-9) in order for the	Create a new vendor request in Munis which uses workflow functionality to route the request (potentially with W-9 attachments) to the Auditor's Office.
3	and is final approved by a department, an admin staff from the Executive Office's Purchasing Division prints and manually routes the requisition for Executive Office	Eliminate the need for a requisition to be printed and routed within Central Services by incorporating the Admin Services Manager and Deputy CEO approvals into Munis' approval workflow.

#### **Procurement Processes Sample**

No.	Est. Time Savings (minutes)	Number Staff Affected	(200	(52	Est. Total Savings (minutes)	Est. Total Savings (hours per year)	Cost Efficiency (Hrs. x Rate)
1	10	100		2	104,000	1,733	\$70,625
2	30	100		2	312,000	5,200	\$211,875
3	30	5		2	15,600	260	\$10,594

#### Efficiency (ROI) Calculations

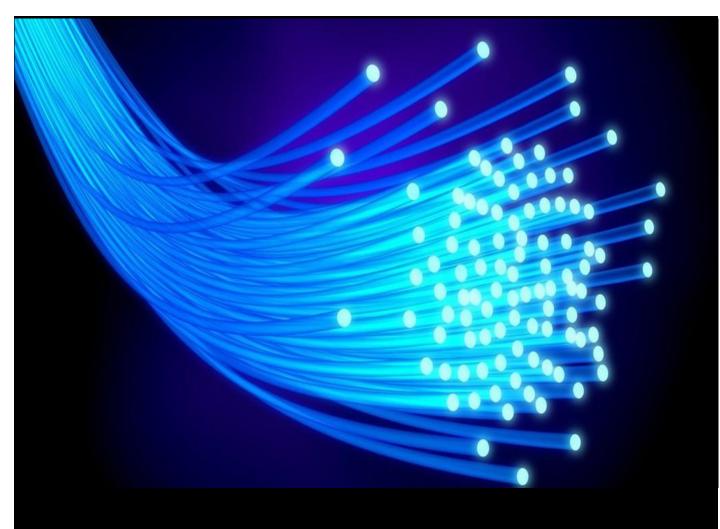
- In another example, we were asked to perform ROI calculations for all Year One IT Strategic Plan Initiatives.
  - 34 initiatives
  - Some used industry studies "Route Management Software reduces overtime by 15%".
  - In many cases, we surveyed the users.
  - Others used a form of risk analysis.

90% of projects showed payback < 2 years!

#### Efficiency (ROI) Calculation (Cont.)

#### **Construction Project Scheduling Software – Efficiency Savings**

Description (sequential order, if applicable)	# of Staff	Approx. Hours Spent per Staff	Total Hours Spent	Process Change Description	Approx. Hours Saved	Annual Frequency weekly = 52 monthly = 12 yearly = 1	Total Annual Hours Saved	Average Hourly Rate	Gross Average Hourly	Potential Annual Labor Efficiency
MUED - Time spent				Automated Reports						
manually generating				(Layouts can be						
reports				created in P6						
				automating the						
	8.00	3.00	24.00	process)	24.00	12	288.00	\$37.84	\$56.56	\$16,289
MUED - Time spent				Automated website						
updating website content	4.00	3.00	12.00	updates	8.00	52	416.00	\$37.84	\$56.56	\$23,529
MUED - Time spent				Improved efficiency						
scheduling projects				through scheduling						
	11.00	1.50	16.50	tools	8.25	52	429.00	\$37.84	\$56.56	\$24,264
Sub-Totals			53		40.25		1,133			\$64,082



High Potential Technical Applications

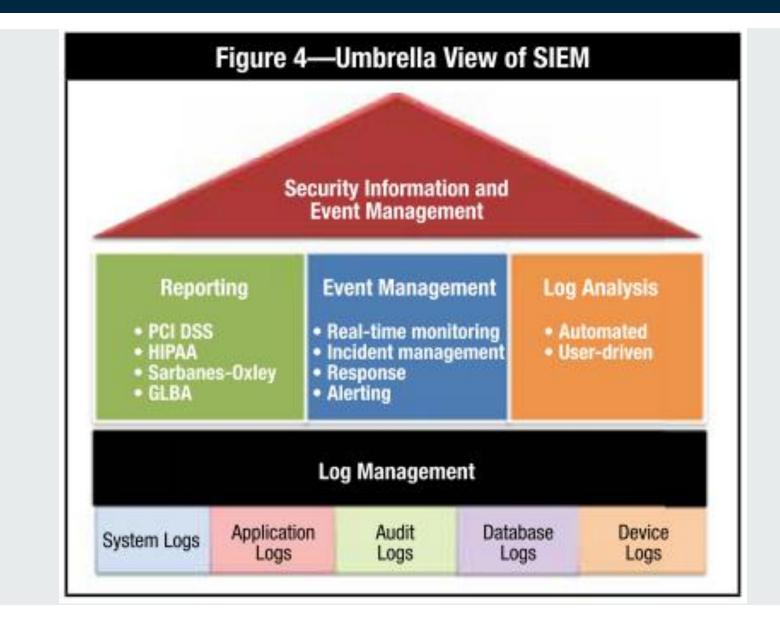
Geeks Need
Process
Improvements
Too!

#### Measuring Efficiency Is Difficult

#### Key Metric – Productivity!

IT Staffing Resources Analysis FY18 Prioritization - 1st Quarter Actu	als			30%	Produ	ctivity	Goal	
	Joe	Diane	Troy	Intern	InterDev	DIV		
Hours Available Per Week	40	40	40	23	28	TOTAL	GOAL	
Administration - Management,	69.0%	38.0%	54.0%	43.0%	13.0%	46%	43%	
Maintenance and Updates	27.60	15.20	21.60	9.89	3.64			
Help Desk User Support	2.0%	24.0%	22.0%	31.0%	73.0%	27%	27%	
	0.80	9.60	8.80	7.13	20.44			
Prioritized Non-CIP Project List	4.0%	5.0%	20.0%	0.0%	10.0%	8%	7%	
	1.60	2.00	8.00	0.00	280			
CIP Projects	25.0%	33.0%	4.0%	26.0%	4.0%	19%	23%	
	10.00	13.20	1.60	5.98	1.12			
Check Total	40.00	40.00	40.00	23.00	28.00	100%	100%	

#### Log Management



#### Log Management

- Depending on organization, one or more engineers spend hours each day reviewing logs
- Engineer pay approx. = \$80/hr.
- Annual savings approx. \$16K
- Onetime implementation around \$25K...
- Easy to justify



#### **Identity Management**



#### **Identity Management**



#### **Identity Management**

- Provisioning/Deprovisioning
  - Over 20 systems
    - Sheriff has another 10 systems
  - 4 different groups
  - Average of 4 hours/week/group



24 hours \* 50 weeks \* \$80/hr = \$96,000/year

Identity Management systems budget = \$100K - \$200K

Payback is a bit more than 2 years!

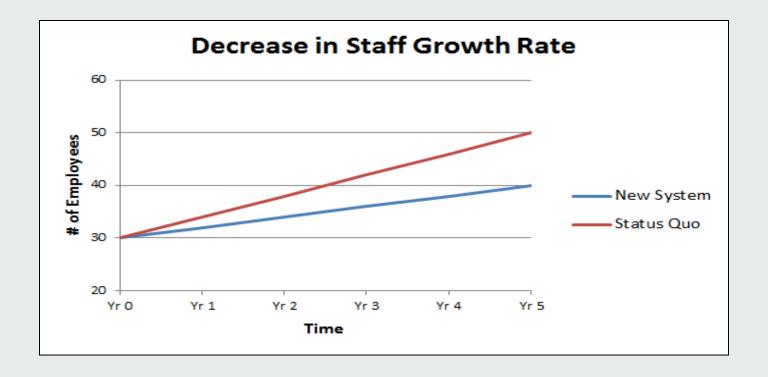


Trends That Are Here To Stay

Summary

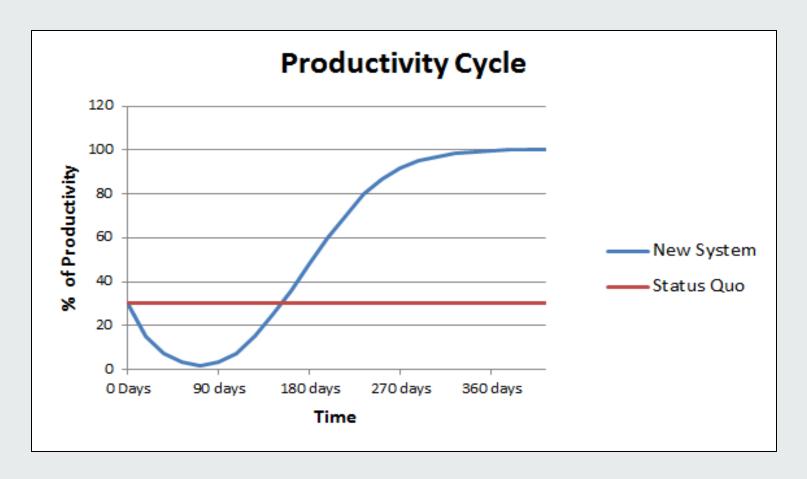
#### **Goals of Automation**

Use gains from automation to decrease staff growth



Some call automation gains "staff multipliers"

#### Results Take Time



Gains from automation take time - and commitment.

#### Gains Through Automation

- And finally, sometimes, we have to spend \$ to save \$s.
- Gains from automation can include:



Improved service levels
Time to implement new
services

New hire avoidance Eliminating positions through attrition

Position consolidation





Questions?

