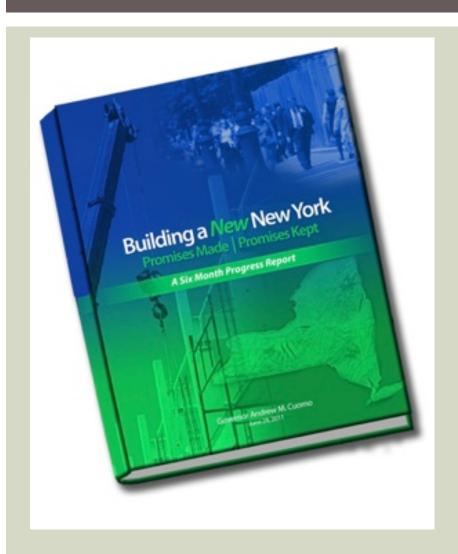
WORK SMARTER BY WORKING TOGETHER

Daniel C. Chan
Acting State
CIO
New York



MOTIVATIONS



"The Governor closed the \$10 billion current year gap with no new taxes and no borrowing. He reduced the 2012-2013 gap by 85%"

"The budget reflects Governor Cuomo's proposed 10 percent year-to-year general fund reductions for all state agency operations"

"Spending and Government Efficiency (SAGE) Commission to reduce the number of state agencies, authorities, and commissions by 20 percent"

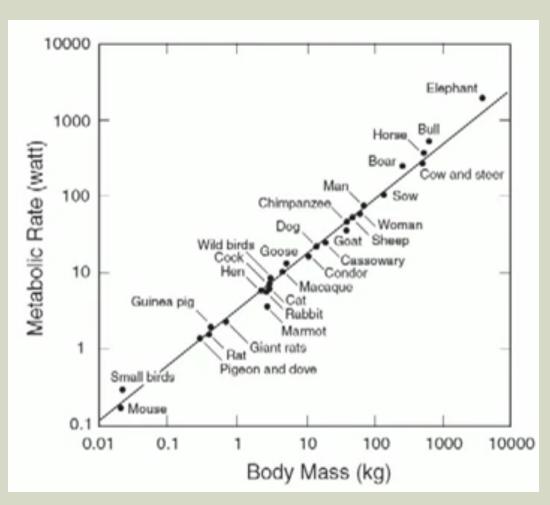
THOUGHT LEADERSHIP: INNOVATIVE & CREDIBLE IDEAS

- Business as usual is no longer a viable option
- You know your business better than anybody else
- Be an agent for change
- Look for SMART ideas

TOP 10 CIO PRIORITIES BY NASCIO

- 1. Consolidation / Optimization
- 2. Budget and Cost Control
- 3. Health Care
- 4. Cloud Computing
- 5. Shared Services
- 6. Governance
- 7. Security
- 8. Broadband and Connectivity
- 9. Legacy Modernization
- 10. Data and Information Management

ECONOMY OF SCALE IN BIOLOGY



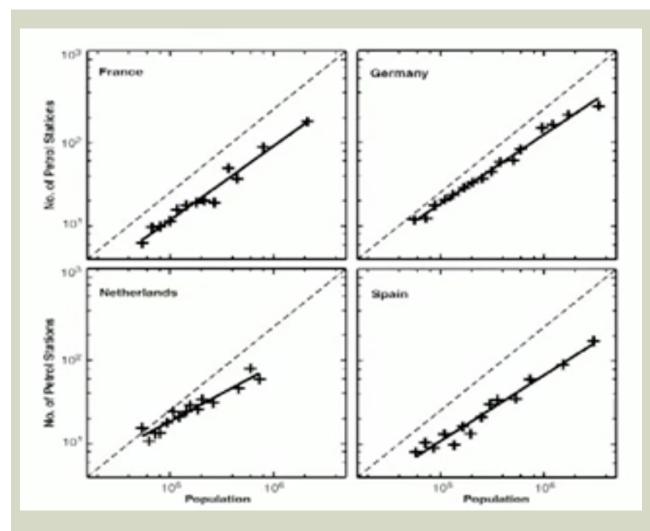
Sub-linear scaling < 1

Universal: MR ~ M^{0.75}

Bigger you are the less you need per captia

~1.5B heart beats per lifetime, independent of size

ECONOMY OF SCALE FOR CITY INFRASTRUCTURE (NO. OF GAS STATIONS VS. POP)



Similar scaling as biological systems (sub-linear)

PROJECTED COST REDUCTION FROM ECONOMY OF SCALE

Relative Size Cost Reduction

2 15.9%

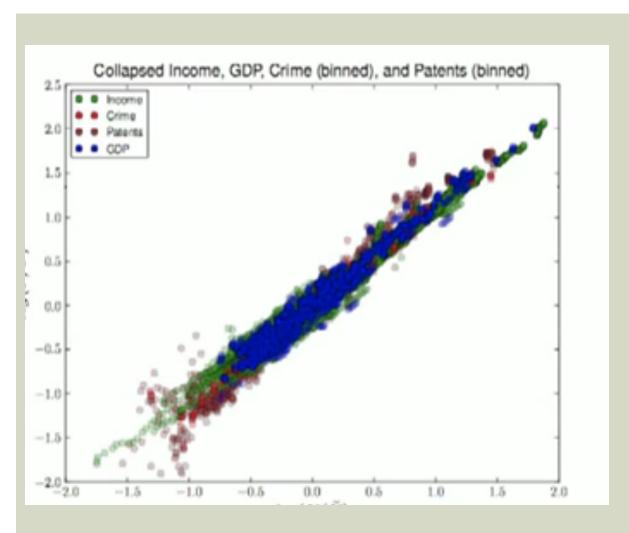
10 43.8%

50 62.4%

100 68.4%

1000 82.2%

BENEFITS AND LIABILITIES FOR DIFFERENT CITY SIZES



Income,
Productivity,
Intelligence and
Crime Increase at
~P^{1.21} (super-linear),
P = Population

PROJECTED INTELLECTUAL CAPACITY GROWTH FOR DIFFERENT SIZES

Relative Size Growth

2 15.7%

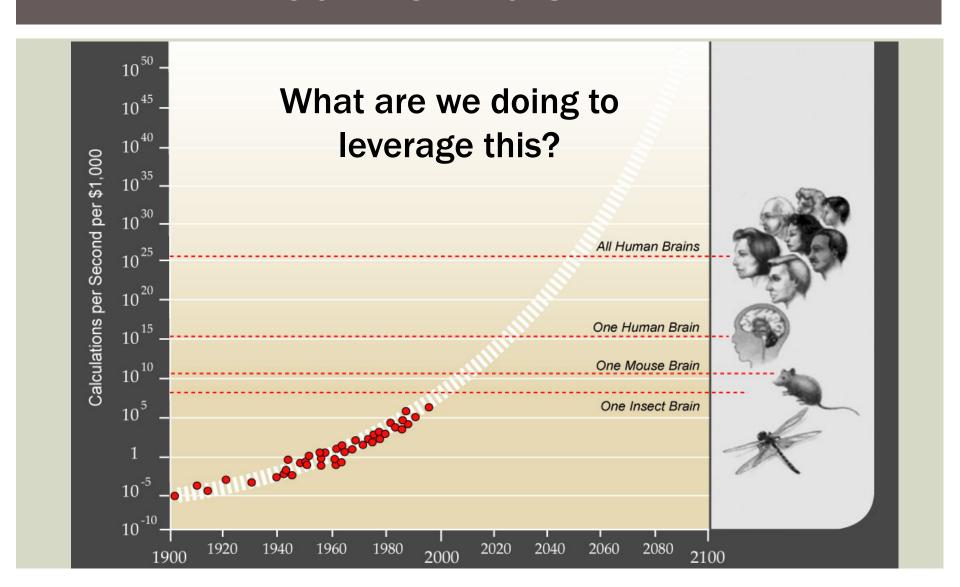
10 62.2%

50 127.4%

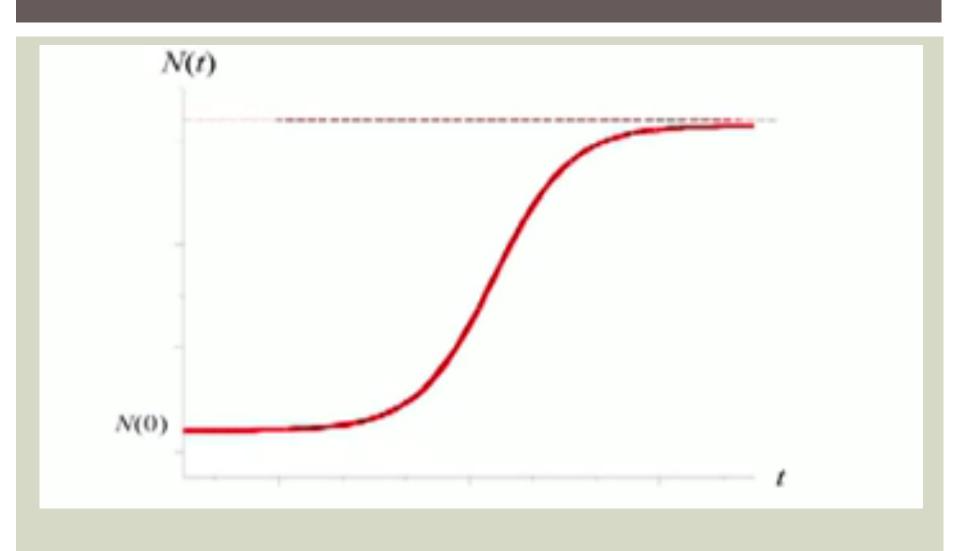
100 163.0%

1000 326.6%

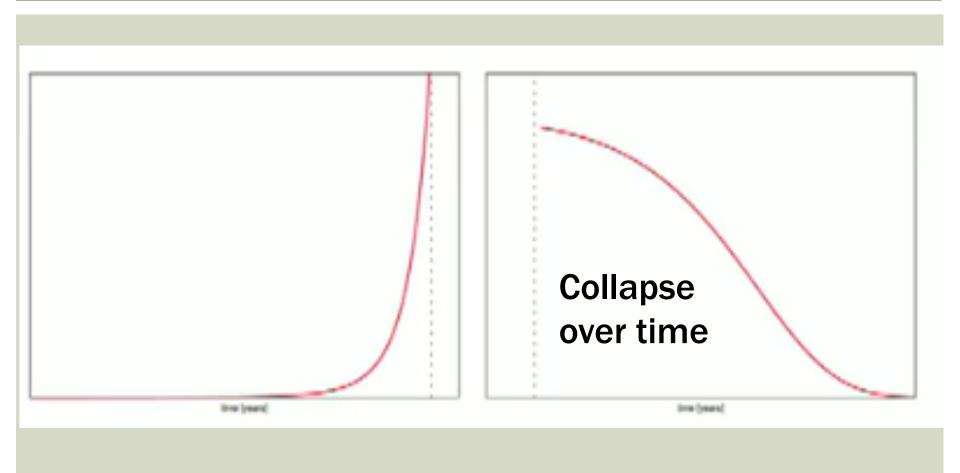
IMPACT OF EXPONENTIAL GROWTH IN COMPUTING SPEED



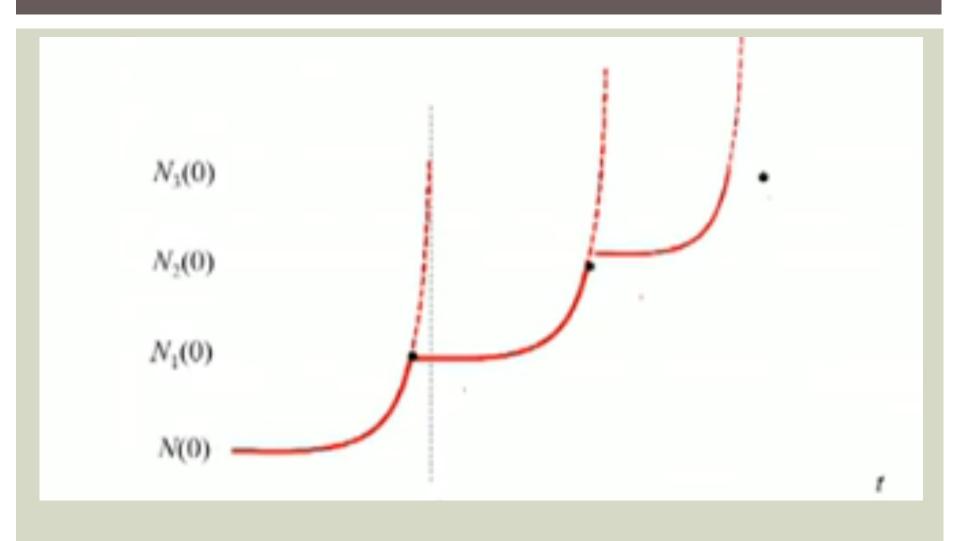
LIMITATION OF SUB-LINEAR GROWTH



SUPER-LINEAR GROWTH NOT SUSTAINABLE



NEED CONTINUOUS INNOVATION/ IMPROVEMENT



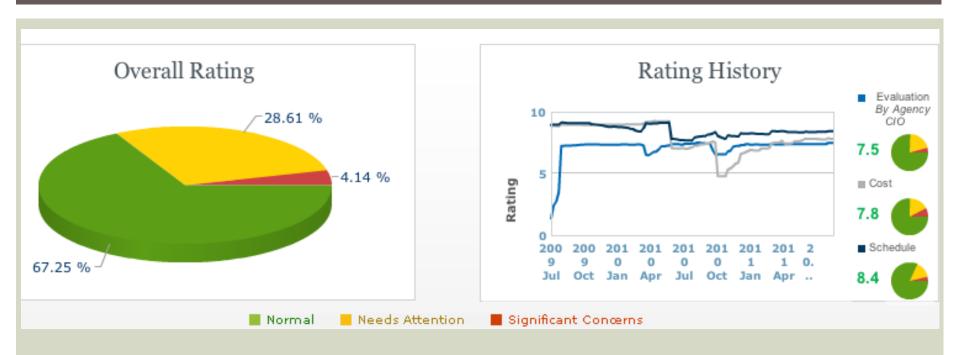
FIRST STEP: ESTABLISH MEASUREMENT CAPABILITY TO BUILD DISCPLINE

- How we are doing?
- Identify opportunities & dependencies
- Establish plan of attack
- Make the improvement
- Continue to monitor the new state

FEDERAL IT DASHBOARD BUILT ON OPEN SOURCE TECHNOLOGY



FEDERAL IT DASHBOARD (8/11)



- Blended Rating of CIO + Schedule + Cost
- Required Reporting by Law (Clinger-Cohen Act Of '96)
- Managed by OMB (Exhibit 53 & 300)

LARGE SPEND ON MAINTENANCE & INFRASTRUCTURE



MAKE INFORMED DECISION

- Governing bodies and structure
- Repeatable processes
- Standards based
- Predictive analytic tools
- Transparency and accountability

LEAN SIX SIGMA PROCESS



KEY OBSERVATIONS MADE WITH ANALYTICAL TOOL R

Cost Overall Rating
CIO accountability evident
Not all "Red" projects are \$\$\$

Overall.Rating CIO.Evaluation.i Overall.Rating.ir Total.Spending.1

Overall.Rating

CIO.Evaluation.in.Red...Spending.In...million.

Overall.Rating.in.Red...Spending.In...million.

Total.Spending.In...million.

