

# THE SCIENCE OF LAWS

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*Science of Laws Institute*

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# SCIENCE OF LAWS INSTITUTE

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**PURPOSE**

**ESTABLISH THE**

**SCIENCE OF LAWS**

**(1) GOVERNMENT**

**(2) LAWS**

**(3) TRADITIONAL  
LAWMAKING**

**(4) SCIENCE OF LAWS**

**(1)**

**GOVERNMENT**

# GOVERNMENTS

- **NECESSARY**
  - **ORGANIZATION**
  - **STABILITY**
  - **PROTECTION**
  - **RESOLUTION DISPUTES**



IN CONGRESS, JULY 4, 1776.

# A DECLARATION

BY THE REPRESENTATIVES OF THE  
UNITED STATES OF AMERICA,  
IN GENERAL CONGRESS ASSEMBLED.

**W**HEN in the Course of human Events, it becomes necessary for one People to dissolve the Political Bands which have connected them with another, and to assume among the Powers of the Earth, the separate and equal Station to which the Laws of Nature and of Nature's God entitle them, a decent Respect to the Opinions of Mankind requires that they should declare the causes which impel them to the Separation.

We hold these Truths to be self-evident, that all Men are created equal, that they are endowed by their Creator with certain unalienable Rights, that among them are Life, Liberty, and the Pursuit of Happiness—That to secure these Rights, Governments are instituted among Men, deriving their just Powers from the Consent of the Governed, that whenever any Form of Government becomes destructive of these Ends, it is the Right of the People to alter or to abolish it, and to institute new Government, laying its Foundation on such Principles, and organizing its Powers in such Form, as to them shall seem most likely to effect their Safety and Happiness. Prudence, indeed, will dictate that Governments long established should not be changed for light and transient Causes, and accordingly all Experience hath shewn, that Mankind are more disposed to suffer, while Evils are sufferable, than to right themselves by abolishing the Forms to which they are accustomed. But when a long Train of Abuses and Usurpations, pursuing invariably the same Object, evinces a Design to reduce them under absolute Despotism, it is their Right, it is their Duty, to throw off such Government, and to provide new Guards for their future Security. Such has been the patient Sufferance of these Colonies, and such is now the Necessity which constrains them to alter their former System of Government. The History of the present King of Great-Britain is a History of repeated Injuries and Usurpations, all having in direct Object the Establishment of an absolute Tyranny over these States. To prevent this, let Facts be submitted to a candid View.

- He has refused his Assent to Laws, the most wholesome and necessary for the public Good.
- He has forbidden his Governors to pass Laws of immediate and positive Importance, unless suspended in their Operation till his Assent should be obtained, and when so suspended, he has utterly neglected to attend to them.
- He has refused to pass other Laws for the Accommodation of large Districts of People, unless those People would relinquish the Right of Representation in the Legislature, a Right inestimable to them, and invaluable to Mankind.
- He has called together Legislative Bodies at Places unusual, uncomfortable, and distant from the Depository of their public Records, for the sole Purpose of causing them into Compliance with his Measures.
- He has dissolved Representative Houses repeatedly, for opposing with manly Firmness his Invasions on the Rights of the People.
- He has refused for a long Time, after such Dissolutions, to cause others to be elected; whereby the Legislative Powers, incapable of Annihilation, have returned to the People at large; by which the State remains in the most dangerous Situation, in all the Tempers of Insurrection from without, and Civilian within.
- He has endeavoured to prevent the Population of these States, for that Purpose obstructing the Laws for Naturalization of Foreigners; refusing to pass others to encourage their Migration hither, and raising the Conditions of new Appropriations of Lands.
- He has obstructed the Administration of Justice, by refusing his Assent to Laws for establishing Judiciary Powers.
- He has affected to render his Judiciary Officers dependent on his Will alone, for the Tenure of their Offices, and the Amount and Payment of their Salaries.
- He has erected a Multitude of new Offices, and sent hither Swarms of Officers to harass our People, and eat out their Substance.
- He has kept among us, in Times of Peace, Standing Armies, without the Consent of our Legislature.
- He has affected to render the Military independent of and superior to the Civil Power.
- He has endeavored to bring on the inhabitants of these Colonies, in the most insidious manner, a Militia Service in our Colonies, and unacknowledged by our Laws; giving his Assent to their Acts of

# D. OF INDEPENDENCE

## PURPOSE OF GOV'T

- SECURE RIGHTS  
AND LIBERTY  
OF THE PEOPLE



**PARAMETERS  
DEFINE RIGHTS  
AND LIBERTY ?**

# PARAMETERS

- 1) HUMAN RIGHTS
- 2) LIVING STANDARDS
- 3) QUALITY OF LIFE

# TASK OF GOV'T

- SOLVE PROBLEMS
- Degrade or Threaten  
to Degrade Rights,  
Liberty

**HOW DOES  
GOV'T SOLVE  
PROBLEMS?**

**(2)**

**LAWS**

# LAWS

- PROBLEM SOLVING  
MEANS OF GOV'T
- USEFUL

# LAWS

- HUMAN – MADE
- CONSUME RESOURCES
- OUTCOMES
- SIDE EFFECTS

# LAWS ARE TOOLS

- COMPUTERS
- PESTICIDES
- LAWN MOWERS
- SOFTWARE



# LEGISLATURE

- CREATES LAWS
- RULE OF LAW

# LEGISLATURE

- **USES TRADITIONAL  
METHOD OF  
LAWMAKING  
TO MAKE LAWS**

**(3)**

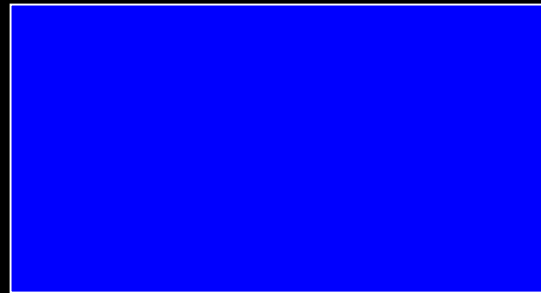
**TRADITIONAL  
METHOD OF  
LAWMAKING**

# TRADITIONAL METHOD

- 1) BEGIN = IDEA FOR A LAW
- 2) TRANSCRIBE = BILL
- 3) LEGISLATURE = MODIFY
- 4) END = ENACT LAW

# LAWMAKING PROCESS

Ideas

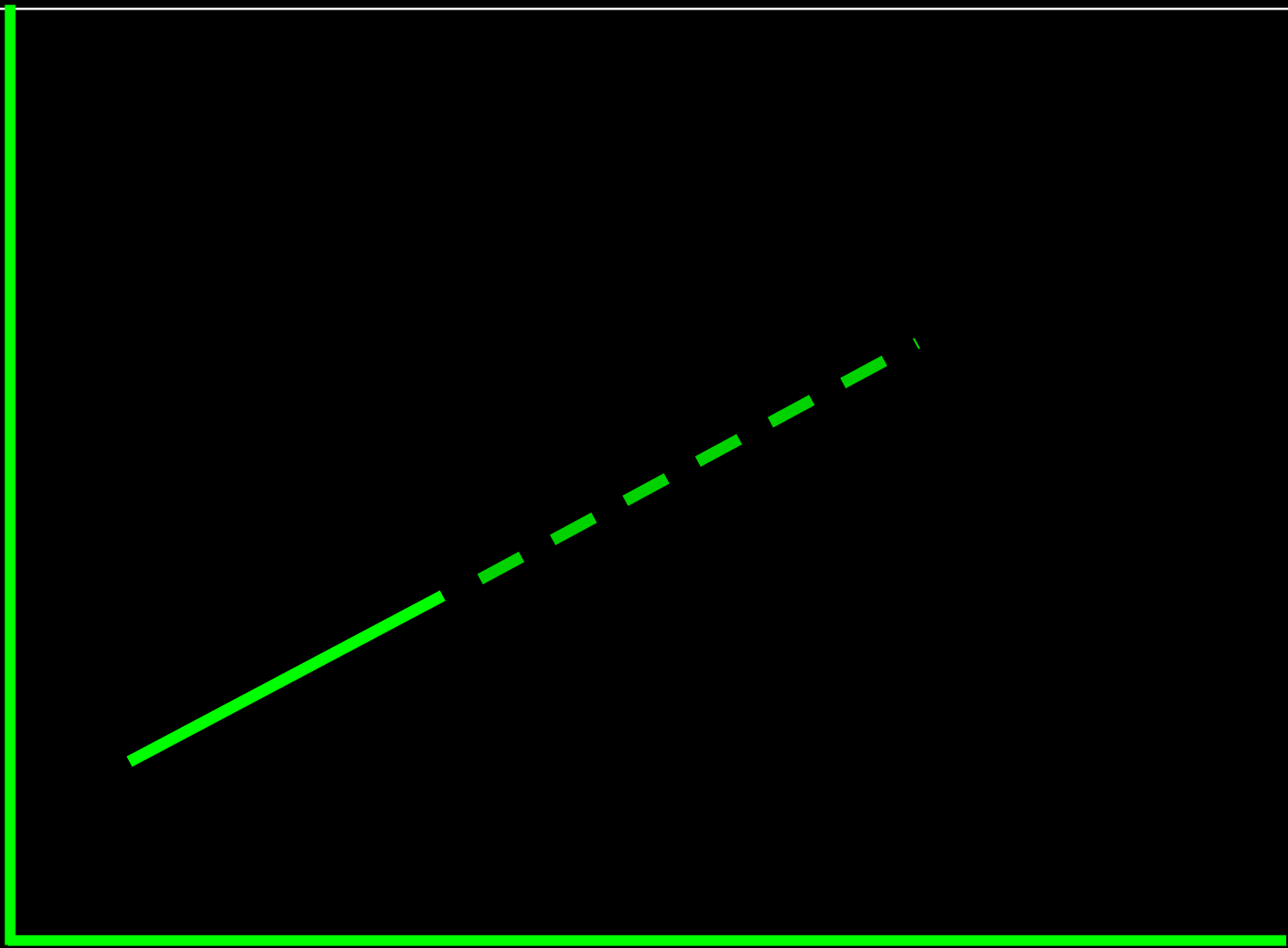


Laws

# PERFORMANCE T-M

- MAKING LAWS
- SUCCESS
  - STATE GOVERNMENTS
  - 40-50,000 LAWS / YEAR

↑  
**Size of  
Bodies  
of Laws**



**Time** →

# PERFORMANCE T-M

- SOLVING PROBLEMS
  - FAILURE



# FAILURE OF LAWS

- Poverty, Pollution
- War, Crime, Illiteracy
- Unemployment, Debt...

# **EVALUATION OF TRADITIONAL METHOD**

**TEN DEFECTS**

**TRADITIONAL  
METHOD**

# DEFECTS

- 1) NO PROBLEM DEFINITION
- 2) NO PRIORITY
- 3) NO PURPOSE

# DEFECTS

- 4) NO DESIGN EXPERTISE
- 5) NO MODELING
- 6) INCOMPLETE COST  
EVALUATION

# DEFECTS

7) NO RISK ANALYSIS

8) ETHICAL PROBLEMS

(EARMARKS, PATRONAGE)

# DEFECTS

9) LACK OF KNOWLEDGE

10) NO QUALITY

ASSURANCE

# DEFECT SUMMARY

- Lack of Knowledge
- Lack of Expertise
- Compromise of Ethics
- Lack of Quality

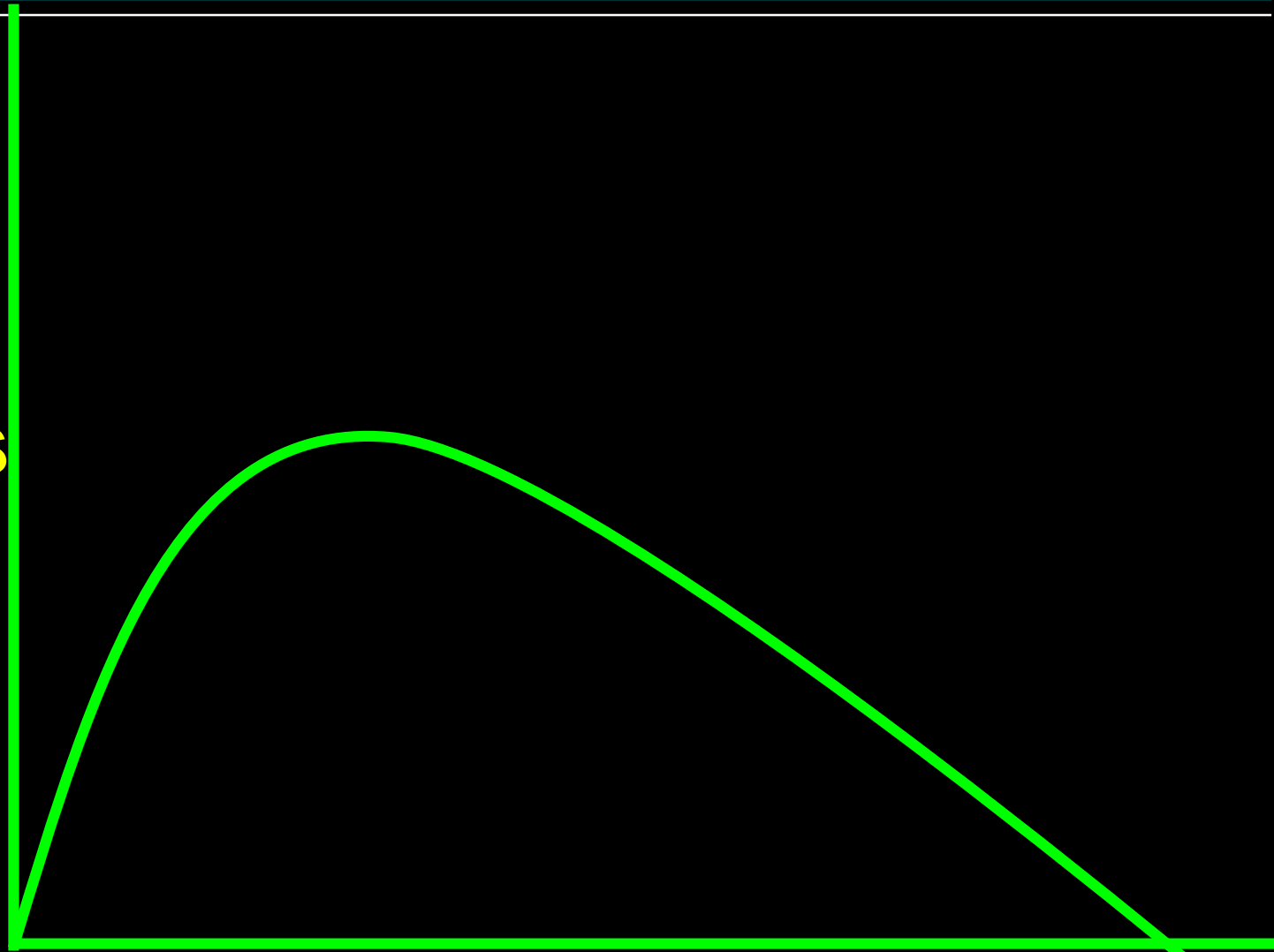


# **LAWMAKING RESULT**

- **INCREASING BURDEN LAWS**
- **PROBLEMS NOT SOLVED**
- **RESOURCES DIVERTED**

↑  
**Usefulness  
of Laws**

**Number of Laws** →



**HOW TO CORRECT  
THE FAILURE  
OF LAWMAKING ?**

# MODELS OF SUCCESS

INDUSTRIES: AGRICULTURE

MANUFACTURING, ELECTRONICS

PHARMACEUTICAL, ENERGY

INFORMATION TECHNOLOGY...

# **SUCCESSFUL INDUSTRIES**

- INCREASING KNOWLEDGE**
- CHANGE = IMPROVEMENT**

# KEY DIFFERENCE

- **SUCCESSFUL INDUSTRIES**
  - **BASIS IN SCIENCE**
- **LAWMAKING INDUSTRY**
  - **NO SCIENCE**

**OPPORTUNITY**

**GRAND EXPERIMENT**

**TO IMPROVE**

**GOVERNMENT**

**EXPAND SCIENCE**

**TO ENCOMPASS LAWS**

**AND LAWMAKING**



# SCIENCE -- FORTE

- Knowledge
- Expertise
- Ethics
- Quality

**(4)**

**CREATE A**

**SCIENCE OF LAWS**

# SCIENCE OF LAWS

Creative Science

Investigative Science

**CREATIVE  
SCIENCE  
OF LAWS**

# **CREATIVE SCIENCE OF LAWS**

**ENGINEERING  
APPROACH TO  
LAWMAKING**

# CREATIVE SCIENCE OF LAWS

- SOLVE PROBLEMS
  - DESIGN LAWS

# **CREATIVE SCIENCE OF LAWS**

- **QUALITY AND ETHICAL  
STANDARDS FOR THE  
DESIGN OF LAWS**

# **CREATIVE SCIENCE OF LAWS**

- **DESIGN METHODOLOGIES  
(Modeling and Simulation)**



# MODELING OF LAWS

- ENGINEERING, LAW
- ECONOMICS, SOCIOLOGY
- STATISTICS, BUSINESS
- PSYCHOLOGY, POLITSCI...

**LAWMAKING**

**MULTI - DISCIPLINARY**

**ENGINEERING**

# COMPUTER SIMULATION

- MODELS
  - 10,000's VARIABLES
- SIMULATION
  - $10^{10-15}$  OPERATIONS / SEC

# GOAL = IDEAL LAW

- 100% EFFECTIVE
- COST EFFICIENT, SAFE
- MINIMAL SIDE EFFECTS
- MAXIMUM BENEFIT TO THE PEOPLE

**PROTOTYPE LAW  
SUBMITTED TO  
LEGISLATURE  
FOR VOTE**

**INVESTIGATIVE  
SCIENCE  
OF LAWS**

# INVESTIGATIVE SCIENCE

- MEASURE OUTCOMES
- ACCUMULATE  
KNOWLEDGE

# UNIVERSAL PREMISE OF LAWMAKING

Law  Desired Outcome  
(Cause) (Effect)



# OUTCOMES

- HISTORY OF LAWS
- QUALITY ASSURANCE PROGRAM

**SCIENCE OF LAWS**

**Q - ASSURANCE**

# QA PROGRAM

## EVALUATE LAWS :

- Necessary and Proper ?
- If Not, REPEAL

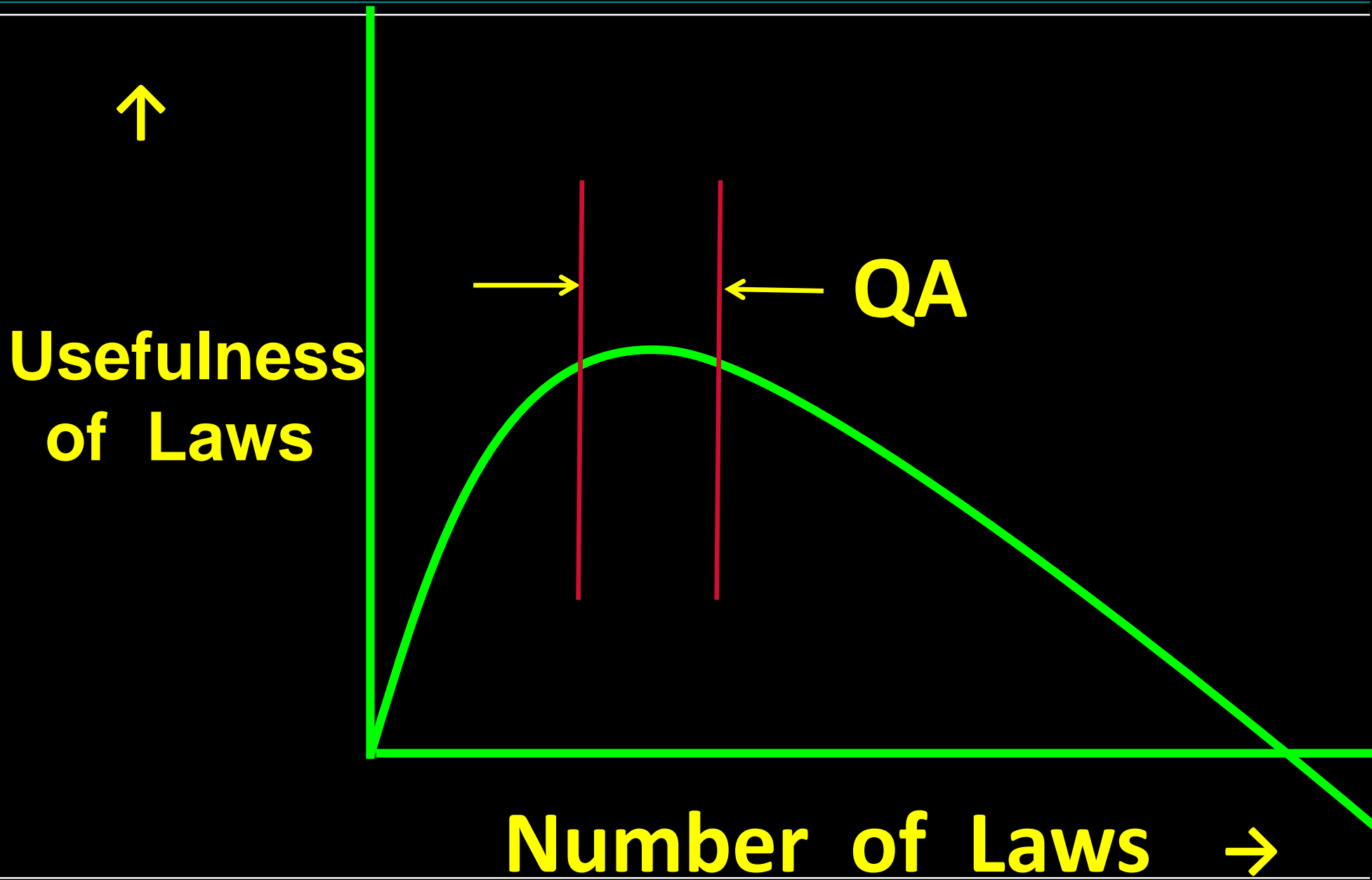
# Q-A Repeal Laws

- **Ineffective / Outmoded**
- **Not Enforced / No Purpose**
- **Redundant / Conflicting**
- **Cannot Be Measured**

# Q-Assurance

## Body of Laws:

- ▼ Size
- ▼ Cost
- ▼ Complexity



# Q-Assurance

- **Eliminate Arbitrary Enforcement Of Laws**
- **Strengthen Rule Of Law**

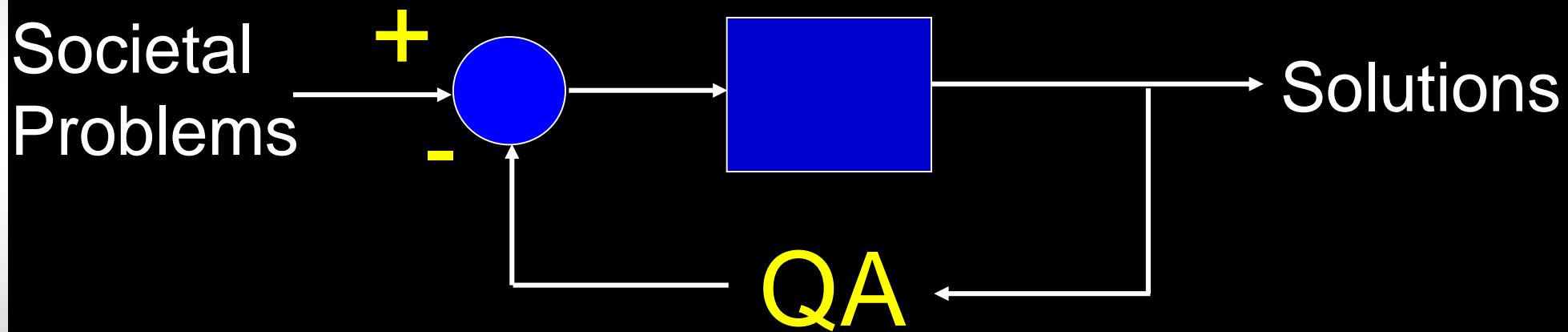
**SCIENTIFIC  
LAWMAKING  
RESULTS**



# TRADITIONAL LAWMAKING



# SCIENCE - DIRECTED LAWMAKING



“Weed Out” Non - Productive Laws

# ADVANTAGE OF SCIENTIFIC LAWMAKING

- Self - correcting in the direction of optimum outcomes in the best interests of the people

**SCIENCE OF LAWS**

**FAILS ?**

**Chaos of Ineffective,  
Complex, Wasteful  
Bodies of Laws**

# SCIENCE OF LAWS SUCCEEDS ?

- ▲ Rule of Law
- ▲ Solution of Problems
- ▲ Human Rights, Living  
Std's, Quality of Life

# **SUMMARY**

## **SCIENCE OF LAWS**

**BRING FULL RESOURCES AND  
EXPERTISE OF SCIENCE TO  
BEAR UPON THE SOLUTION  
OF SOCIETAL PROBLEMS**

**SUMMARY**  
**SCIENCE OF LAWS**

**GOV'T'S SATISFY  
PUBLIC BENEFIT  
PURPOSE**

**SUMMARY**  
**SCIENCE OF LAWS**

**AN EXPERIMENT**  
**WORTH TRYING**



# **TODAY'S CONFERENCE**

**MARK BEGINNING  
DISCUSSION OF THE  
SCIENCE OF LAWS**

**INPUTS AND**

**FEEDBACK**

**WELCOME**

**THANK YOU**

# Performance of Tools

