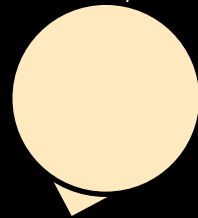


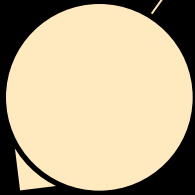
# The Savings Myth



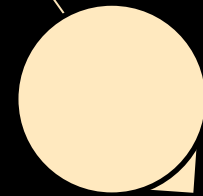
**David Laibson**  
**Robert I. Goldman Professor of Economics**  
**Harvard University**



# Policy Pendulum Swings

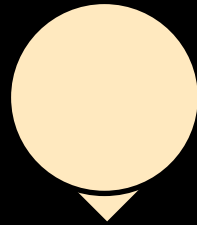


1970  
DB pensions  
strong paternalism



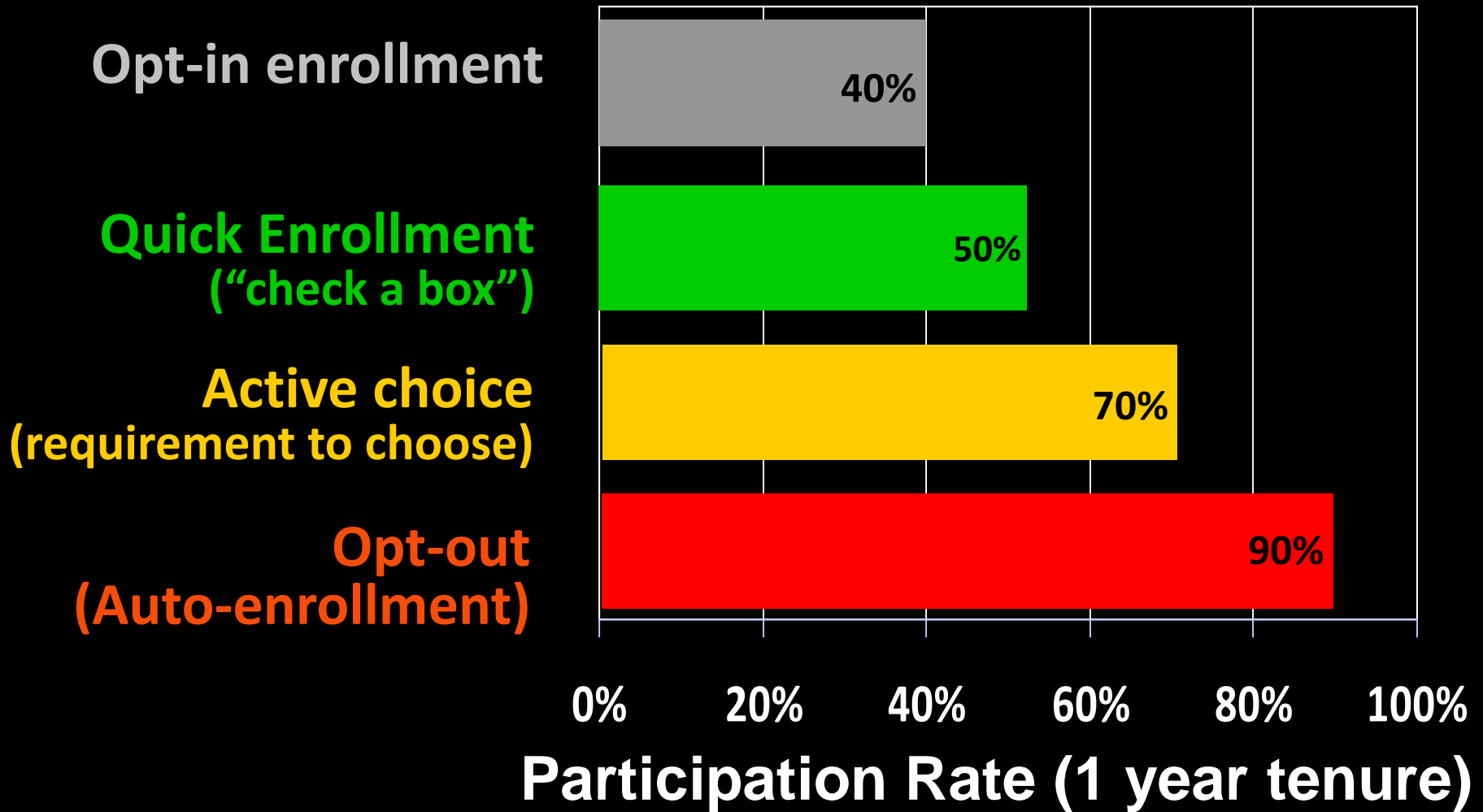
1990

“pure” DC pensions  
strong libertarianism



2013  
DC pensions  
with DB features

# Improving 401(k) participation



# Have we cracked the savings code?

- **Automatic enrollment (opt-out)**
- **Re-enrollment (opt-out)**
- **Target date funds (opt-out)**
- **Savings rate escalators (opt-out)**
- **Quick enrollment (opt-in)**
- **Simplification**
- **Education**
- **Matching**

**Auto-features nirvana?**





## Assumptions for simulation (all real 2013 dollars)

- 6.5% guaranteed return
- 2% inflation rate
- 6% 401(k) saving rate
- 100% employer match
- No leakage
- Start working at age 22
- First job: \$35,000
- Start saving at age 22
- 1% real wage growth
- 50% SS replacement
- “4% rule” in retirement

**At retirement:  
103% replacement ratio  
\$719,275 financial assets  
(+ house + Social Security)**

# The savings myth:

**The new retirement savings system  
is working**

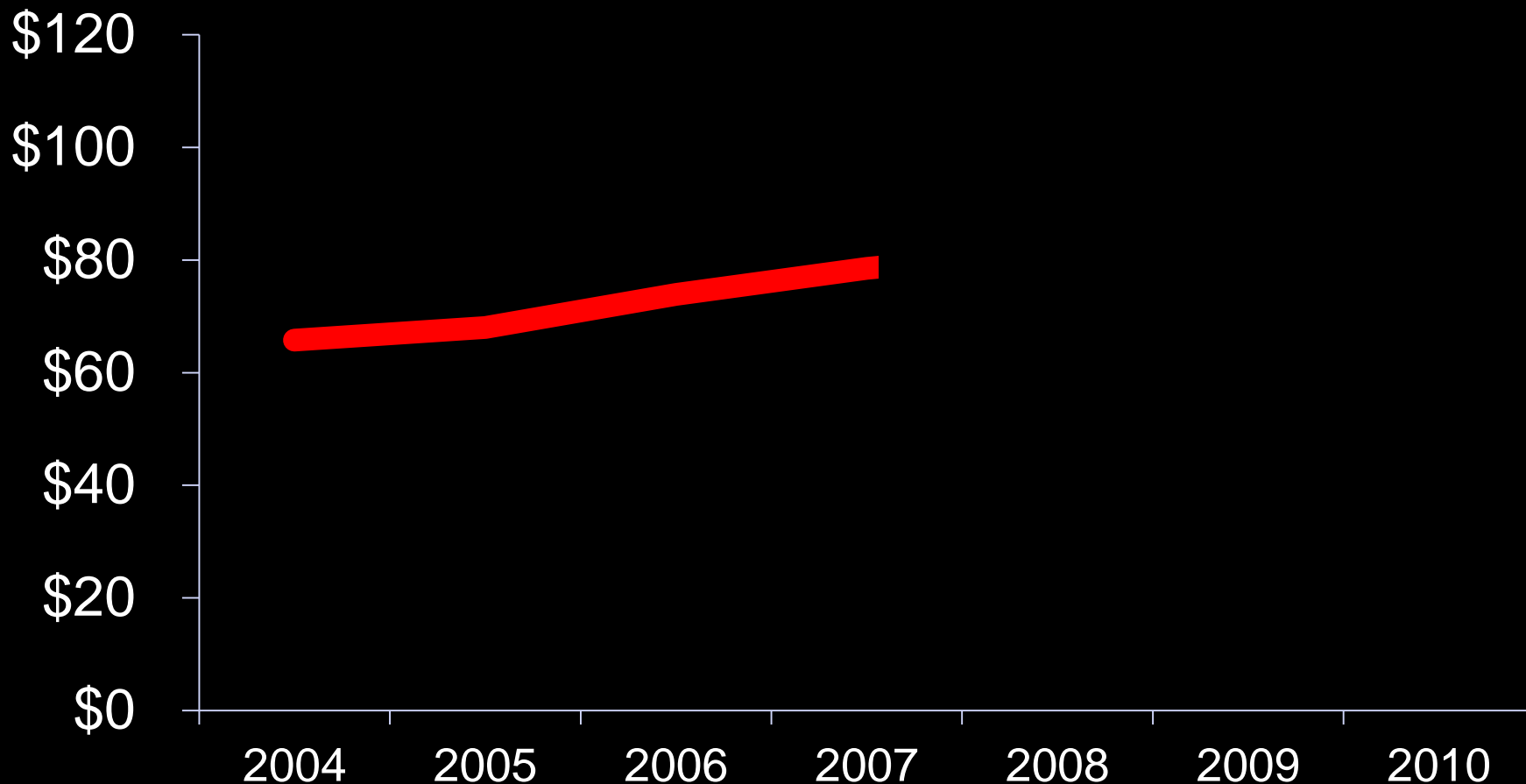
## The truth:

~~The new retirement savings system  
is working~~

For every two dollars that go into the retirement system about one dollar simultaneously leaks out (before retirement)

# Taxable withdrawals from retirement accounts among households 55 years old and younger

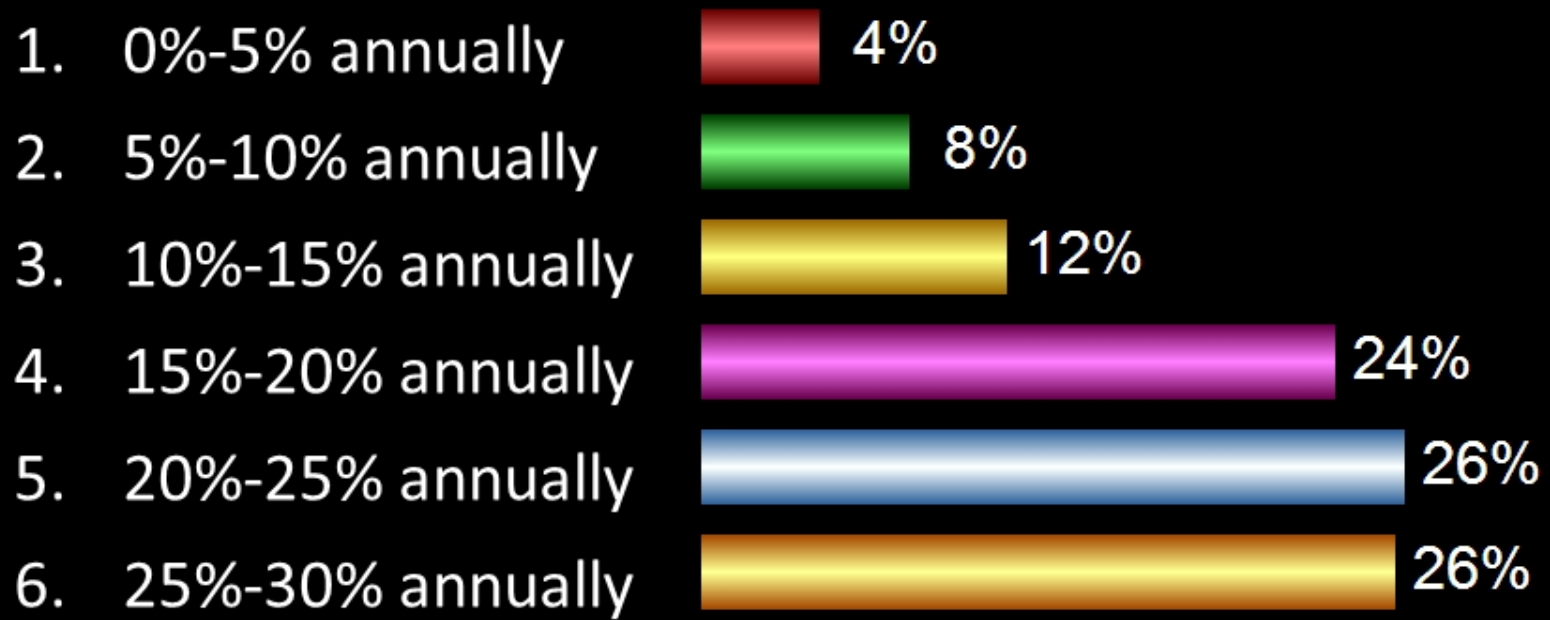
Billions



Source: Argento, Bryant, and Sabelhouse (November 2012)

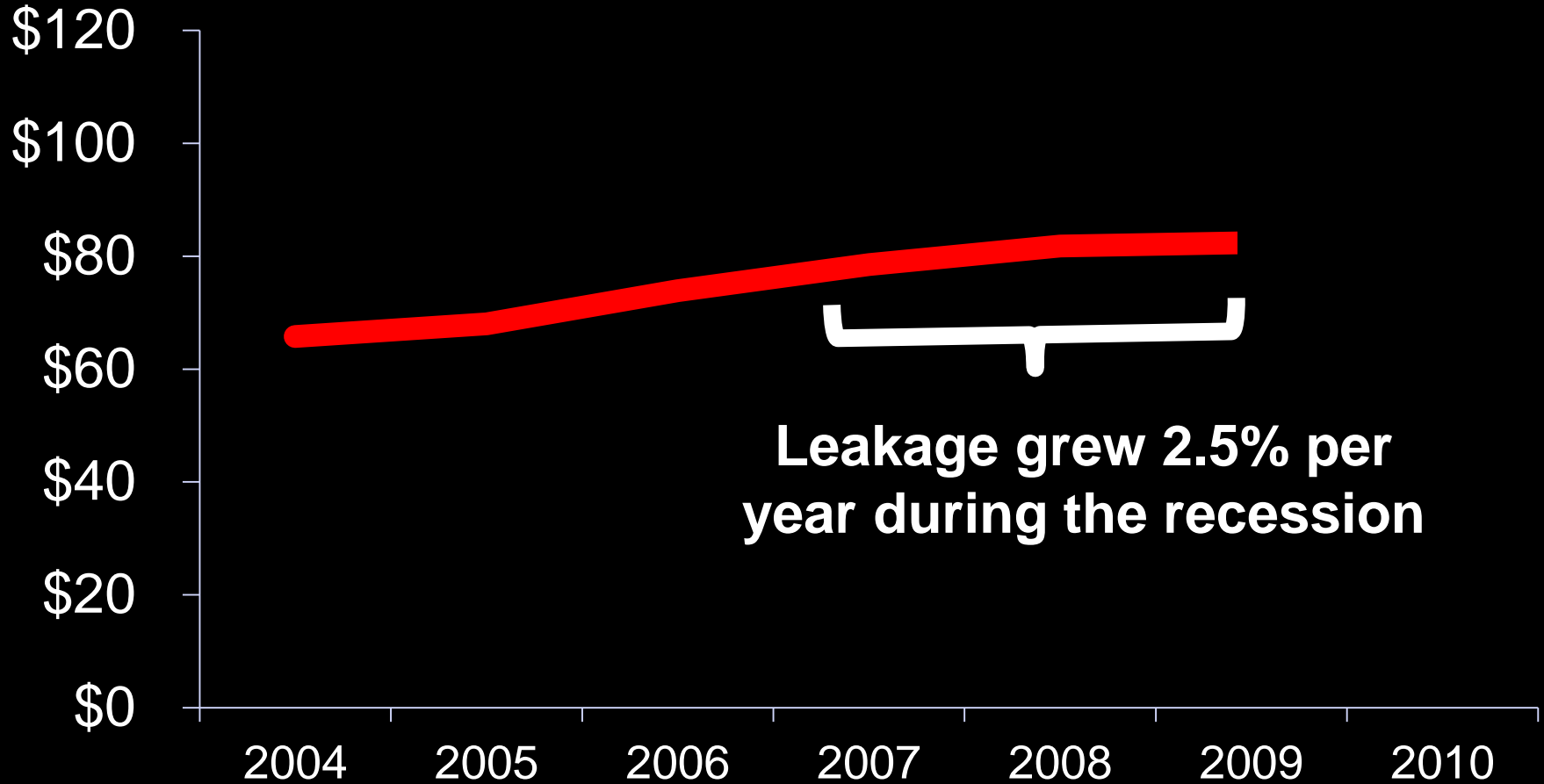
# Poll question

During the 2007-2009 Great Recession, what was the annualized growth rate of the nominal value of leakage:



# Taxable withdrawals from retirement accounts among households 55 years old and younger

Billions

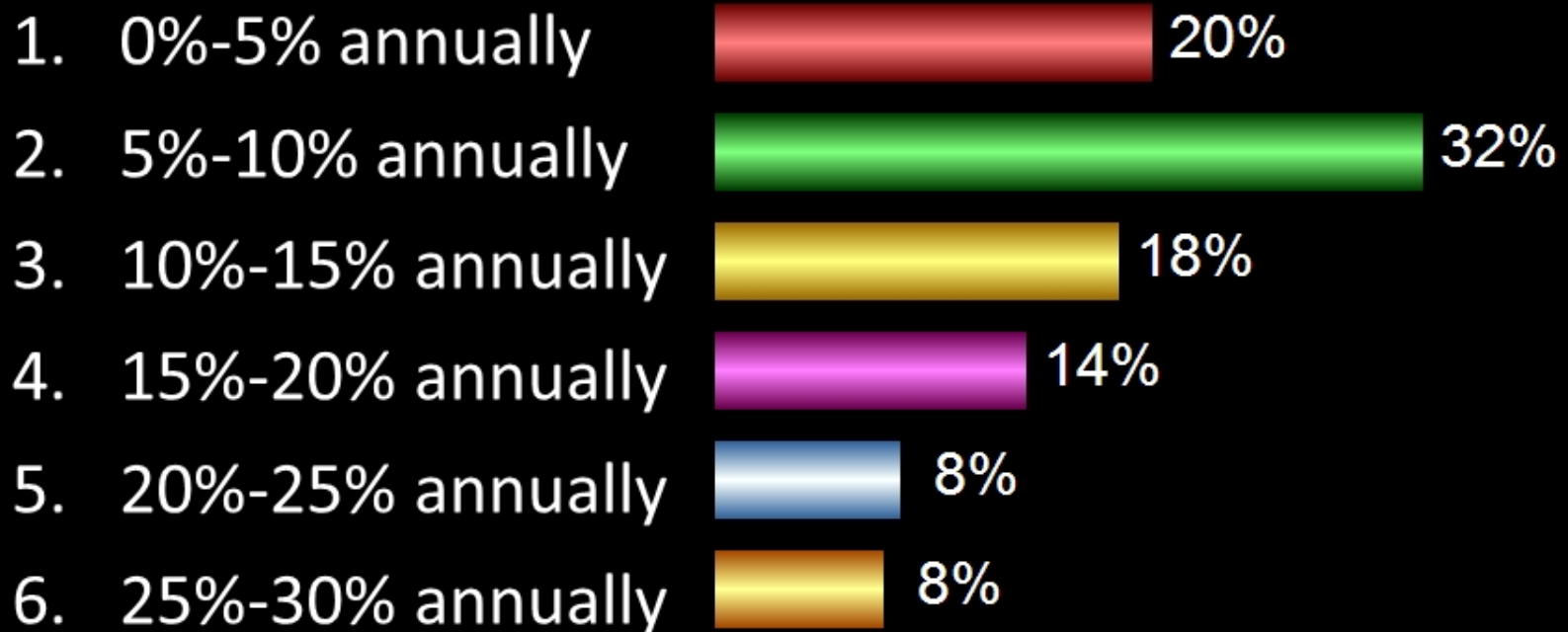


Leakage grew 2.5% per year during the recession

Source: Argento, Bryant, and Sabelhouse (November 2012)

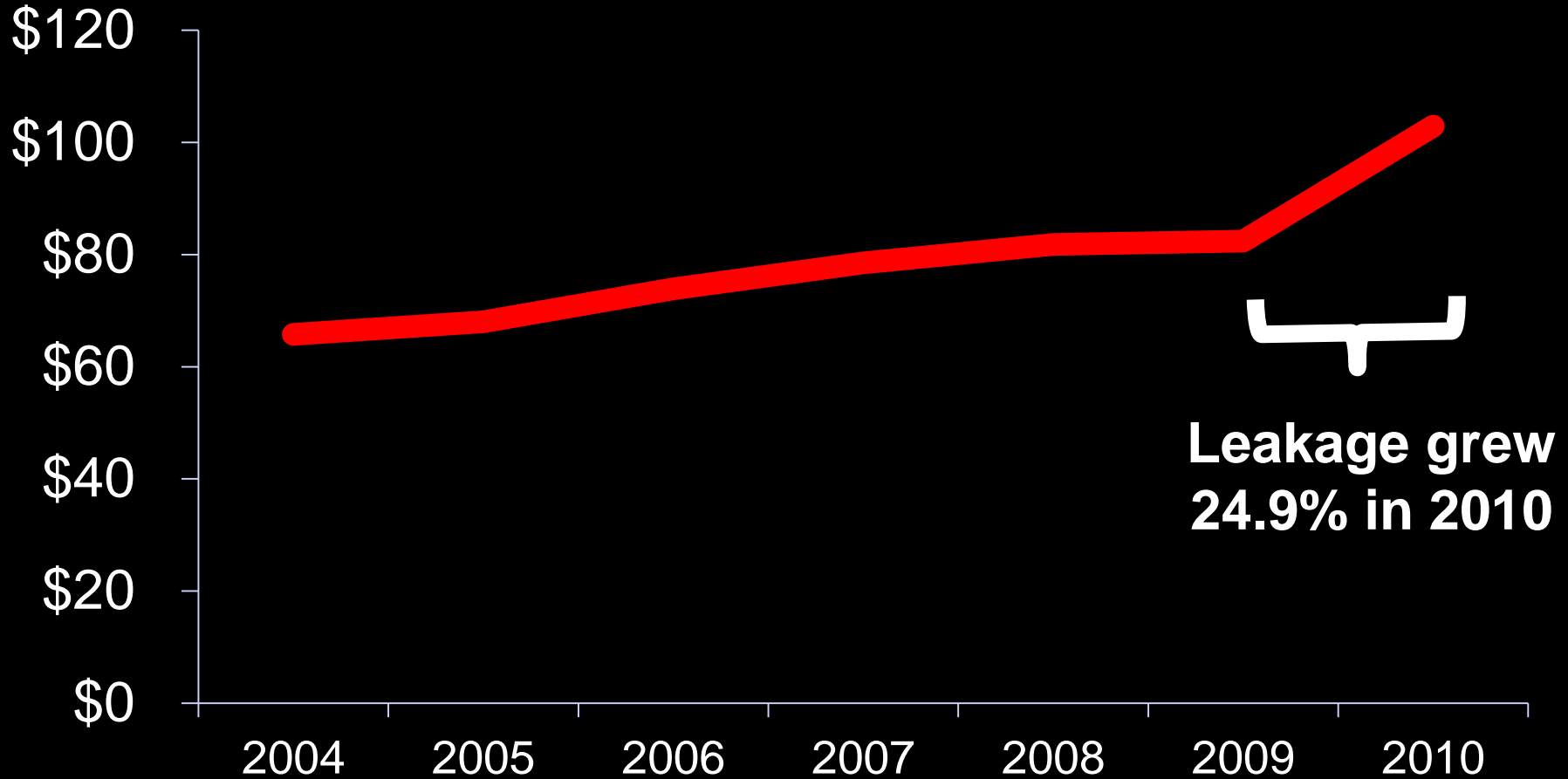
# Poll question

In 2010, what was the annualized growth rate of the nominal value of leakage:



# Taxable withdrawals from retirement accounts among households 55 years old and younger

Billions



Source: Argento, Bryant, and Sabelhouse (November 2012)



# Another myth

**Leakage is a temporary problem that is likely to go away as the economy recovers**

# The truth

~~Leakage is a temporary problem that is likely to go away as the economy recovers~~

Leakage is getting worse

# A little more realism

	Replacement Ratio		Financial Assets
Original scenario	1.03	\$	719,275

Survey of Consumer Finances  
Household head is 65-74 years old (2007):

Median holding of **financial assets** is  
\$68,100

## Two-person households age 65-69 (50<sup>th</sup> percentile)

- Financial assets: \$ 111,600
- Home equity: \$ 150,000
- Other non-annuity assets: \$ 0
- PV of Social Security and DB: \$ 571,575
  
- Net worth: \$1,015,317
- Real per capita annuity value \$ 20,306

Source: Venti, Poterba, and Wise 2011

## Two-person households age 65-69 (25<sup>th</sup> percentile)

- Financial assets: \$ 13,500
- Home equity: \$ 63,000
- Other non-annuity assets: \$ -100
- PV of Social Security and DB: \$353,873
  
- Net worth: \$609,949
- Real per capita annuity value \$ 12,199

Source: Venti, Poterba, and Wise 2011

## Single-person households age 65-69 (50<sup>th</sup> percentile)

- Financial assets: \$ 12,500
- Home equity: \$ 52,000
- Other non-annuity assets: \$ 0
- PV of Social Security and DB: \$268,766
  
- Net worth: \$414,435
- Real p.c. annuity value \$ 16,577

## Single-person households age 65-69 (25<sup>th</sup> percentile)

- Financial assets: \$ 300
- Home equity: \$ 0
- Other non-annuity assets: \$ -1,000
- PV of Social Security and DB: \$173,114
  
- Net worth: \$237,154
- Real annuity value \$ 9,486



# Net National Savings Rate: 1929-2012

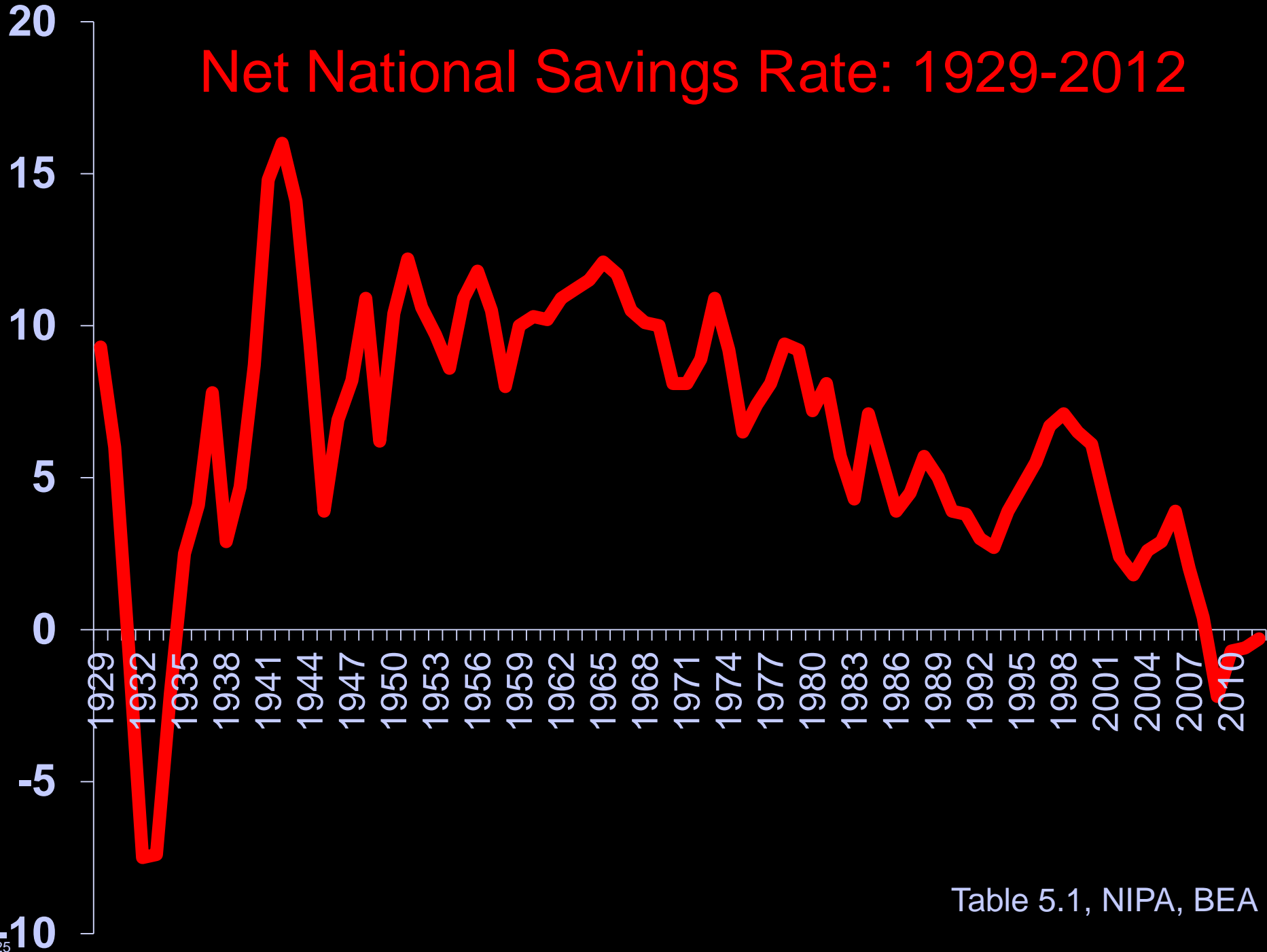


Table 5.1, NIPA, BEA

# Net National Savings Rate: 1929-2012

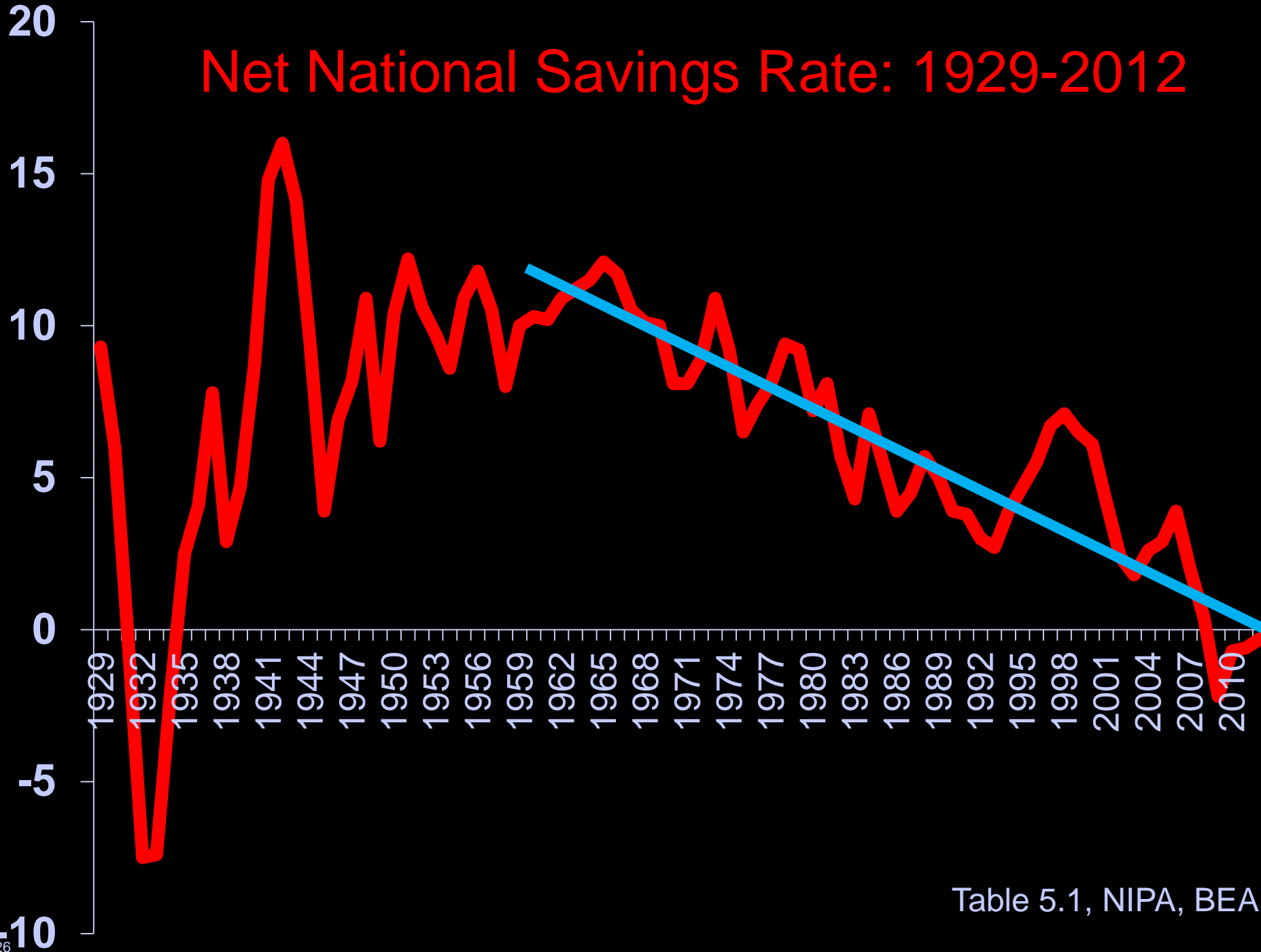


Table 5.1, NIPA, BEA

# Behavioral Economics (Psychology and Economics)

- Improves economic analysis, by incorporating **psychological** factors that influence economic behavior.

# Psychological origins of undersaving

Would you like to have

A) 15 minute massage **now**

or

B) 20 minute massage **in an hour**

Would you like to have

C) 15 minute massage **in a week**

or

D) 20 minute massage **in a week and an hour**

# Choosing fruit vs. chocolate

Choosing Today

Eating Next Week

Time

If you were deciding **today**, would you choose fruit or chocolate for **next week**?



# Patient choices for the future:

Choosing Today

Eating Next Week

Time

Today, subjects typically choose fruit for next week.

74% choose fruit



# Impatient choices for today:

Choosing and Eating  
Simultaneously



If you were  
deciding **today**,  
would you choose  
fruit or chocolate  
for **today**?



# Impatient choices for today:

Choosing and Eating  
Simultaneously



70%  
choose  
chocolate





# Present bias

**Immediate events get full weight.**

**Everything else gets half weight.**

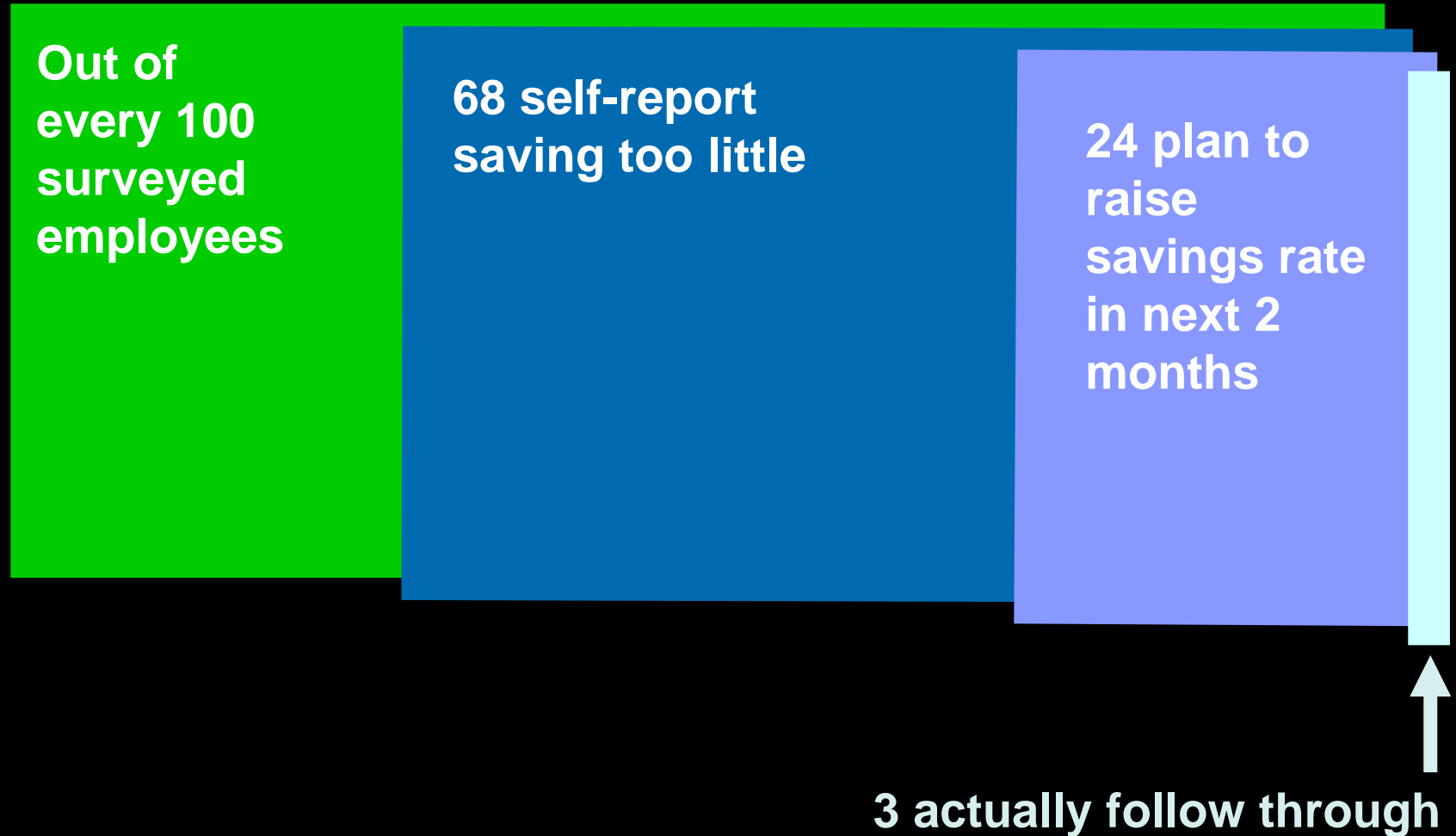
# Procrastination

- Exercise has effort cost 6
- Delayed health benefit of 8
  
- Exercise Today:  $-6 + \frac{1}{2} [8] = -2$
- Exercise Tomorrow:  $0 + \frac{1}{2} [-6 + 8] = 1$

# Joining a Gym

- **Cost of membership: \$75 per month**
- **Number of visits: 4**
- **Cost per visit: \$19**
- **Cost of “pay per visit”: \$10**

# Saving intentions vs. saving behavior



# Why do people procrastinate in saving?

1. If I join the 401(k) today, I suffer 100% of the sign-up hassles. The hassles loom 50% as large, if I plan to join **next month**.
2. I'll have more free time **next month**.
3. My family is living paycheck to paycheck right now. Our finances will be in better shape **next month**.

# Key Solutions

- **Raise the typical saving rate by using higher default saving rates and auto-escalation**
  - 6% is the new 3%
  - One employer has a non-contingent 10% employer contribution and is adopting auto-enrollment with a 6% contribution and escalation to 10%
- **Switch the match threshold from 6% to 10% of pay**
  - Lower the match rate from 50 cents to 40 cents per dollar?
- **Automatic re-enrollment for non-participants (and low savers) during “open enrollment”**
- **Alternatively, use active choice during “open enrollment”**

# Automatic re-enrollment for non-participants

You are currently not participating in ABC's retirement savings plan, and you are therefore not receiving matching contributions from ABC. To enable you to obtain matching contributions, we will automatically enroll you in the plan on January 1, 2013 at a savings rate of 6% of your pay.

If you do not want to participate in the savings plan, click here:  
**DO NOT JOIN** the savings plan.

To continue with open enrollment, click here:  
**CONTINUE** with open enrollment.

## Active decision for non-participants

You are currently not saving in ABC's retirement savings plan, and you are therefore not receiving matching contributions from ABC.

If you want to participate in the savings plan and receive matching contributions, click here:

**JOIN** the savings plan and pick my savings rate.

If you do want to participate in the savings plan, giving up matching contributions, click here:

**DO NOT JOIN** the savings plan.



# Key Solutions

- Raise the typical saving rate by using higher default saving rates and auto-escalation
- Switch the match threshold from 6% to 10% of pay
- Automatic re-enrollment for non-participants (and low savers) during “open enrollment”
- Alternatively, use active choice during “open enrollment”
- **Discourage distributions and rollovers at separation**
  - Your 401(k) is a better place for these funds than the typical checking account or IRA rollover account

# Key General Idea

- **Recognize the new 401(k) landscape. 401(k)'s now cover:**
  - Retirement
  - Downpayments
  - Education
  - Medical hardships
  - General rainy day spending
- **If 1 dollar comes out for every 2 that go in, then we need to roughly double the savings rate in 401(k) plans**

# If you recognize your own self-control problems...

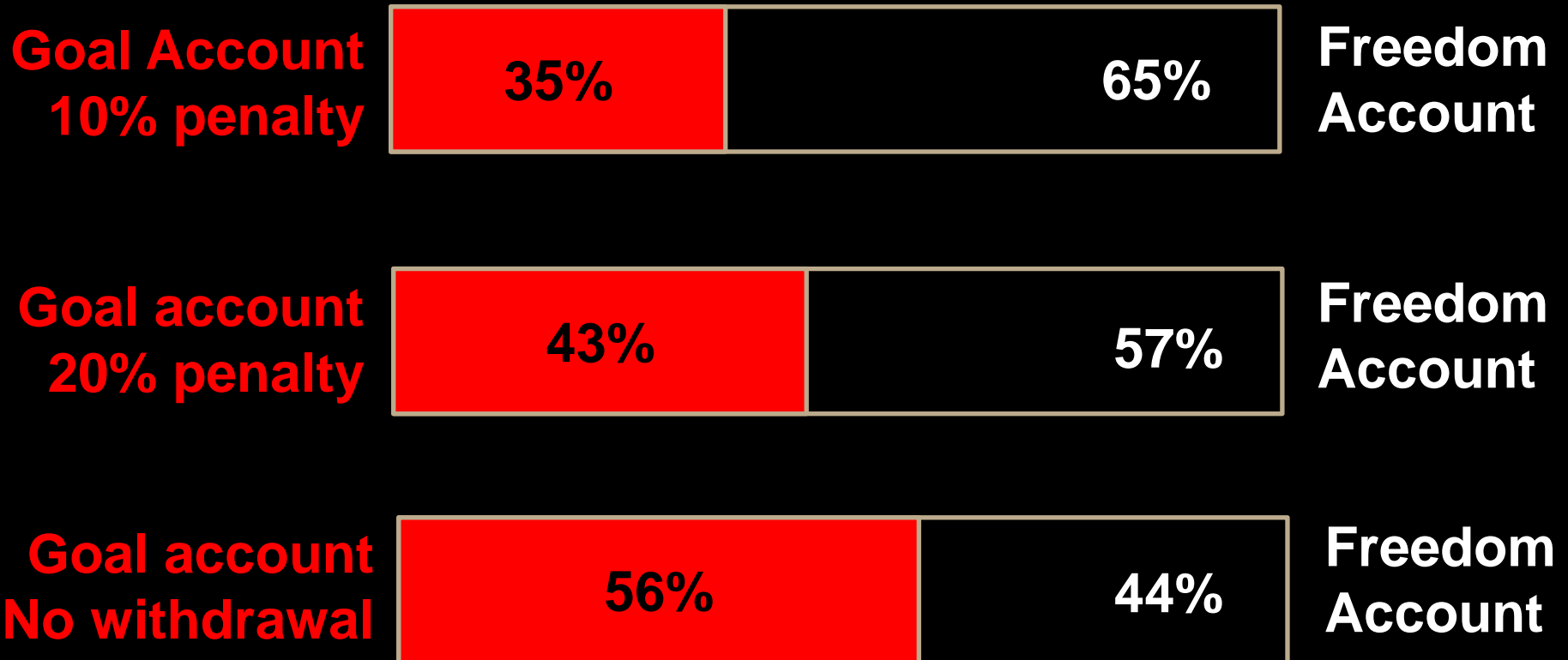
- You'll be willing to tie your own hands
- Force tomorrow's self to do what today's self isn't willing to do
  - Personal trainer
  - Exercise class
  - Exercise partner

# How to design a commitment contract

Participants divide \$\$\$ between:

- **Freedom account (22% interest)**
- **Goal account (22% interest)**
  - withdrawal restriction

# Initial investment in goal account

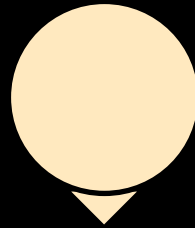


# In the real world, how could we reduce leakage?

- Why are there 300 flavors of ice cream and only one kind of voluntary retirement savings account?
- Why aren't households able to choose how to save?
- Status quo: one-size-fits-all IRA/401(k)
- An alternative:
  - Divide your money however you see fit, across a standard IRA/401(k) and a lockbox IRA/401(k)
- We could give people at least some freedom to **choose** how to manage temptation
- What would happen? Shouldn't we find out?

# Summary

- **The retirement savings system is still not working.**
- **Low savings rates and high leakage rates are crippling the wealth accumulation phase.**
- **Employers and employees need to recognize that 401(k)'s and IRA's have become general purpose savings vehicles.**
- **We need to ramp up savings rates since leakage is probably here to stay.**



2015?

DC pensions

that work in practice and not just in theory