

Long-term Care Insurance: Basic Pricing and Rate Increase Concepts

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Insurance Section

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Purpose

- To provide a basic explanation of:
 - Long-term care (LTC) insurance product features
 - Pricing
 - Reserves
 - Premium rate increases
- The explanation is very simplified and meant for a non-technical audience

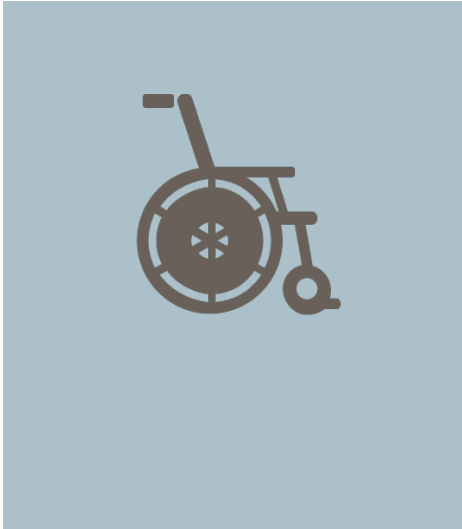
LONG-TERM CARE INSURANCE BASICS

LTC Insurance Benefits

UPON DISABILITY

MANY POLICIES ALSO
REQUIRE RECEIPT OF LTC
SERVICES

LTC
INSURANCE
PAYS OUT...



A red icon of a house, representing care at home.

A grey icon of a multi-story building with a grid of windows, representing an assisted living facility.

A red icon of a nurse's head wearing a cap with a cross, representing a nursing home.

AT
HOME

ASSISTED
LIVING
FACILITY

NURSING
HOME

LTC Insurance Benefits

Not a lump sum:

a benefit is paid each day
up to a maximum benefit per day



Limit on total amount paid out

Many policies do not pay:

- During the entire disability episode
- Until the disability lasts a certain amount of time



By law, policies must cover the insured for his entire life.



- Option to automatically increase benefits each year is offered at purchase, so they keep up with increases in costs of care

The Chance of Using Benefits

LOW chance of use

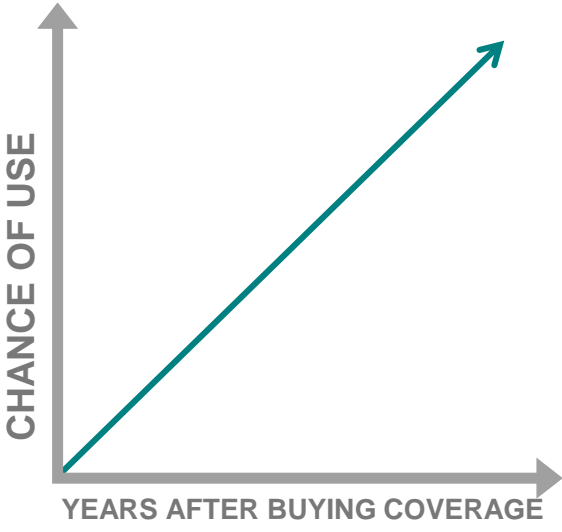


MARRIED COUPLES RIGHT AFTER PURCHASING COVERAGE

HIGH chance of use



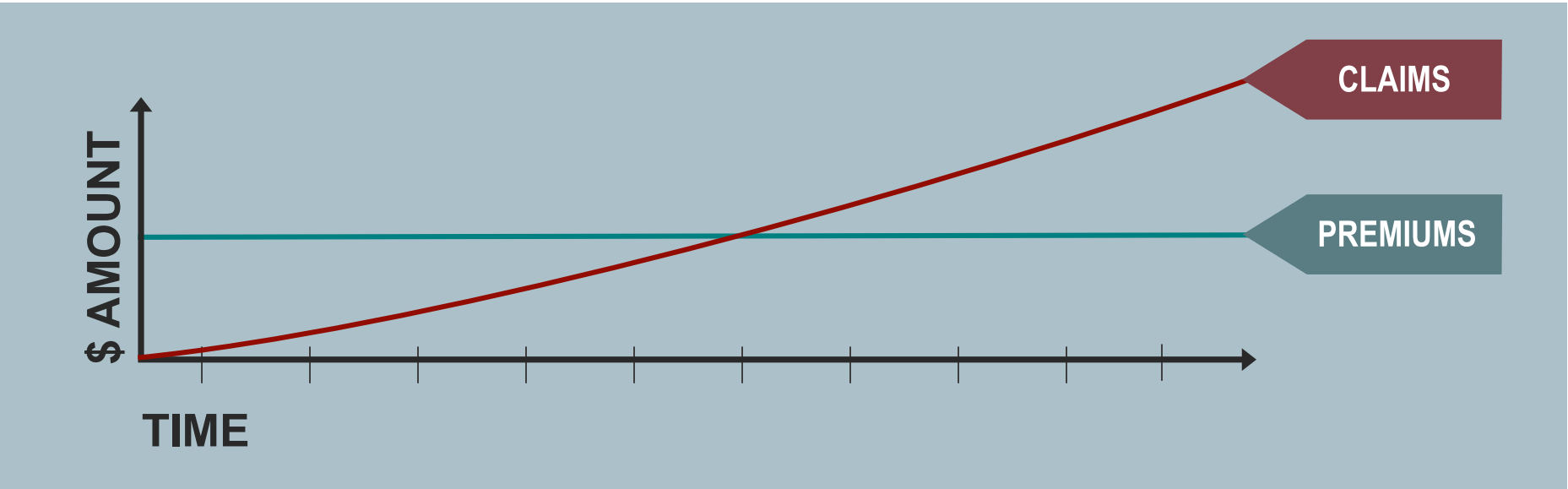
INDIVIDUALS LIVING ALONE + AGE



Premiums

Premium rates do not increase with age.
However, **claims** are expected to increase over time.

THIS CREATES
A CASH FLOW
MISMATCH
FOR INSURERS.



Premiums

Premium rates do not increase with age.

However, **claims** are expected to increase over time.

Insurers must set aside **some of the premiums** in early years in a **reserve**.



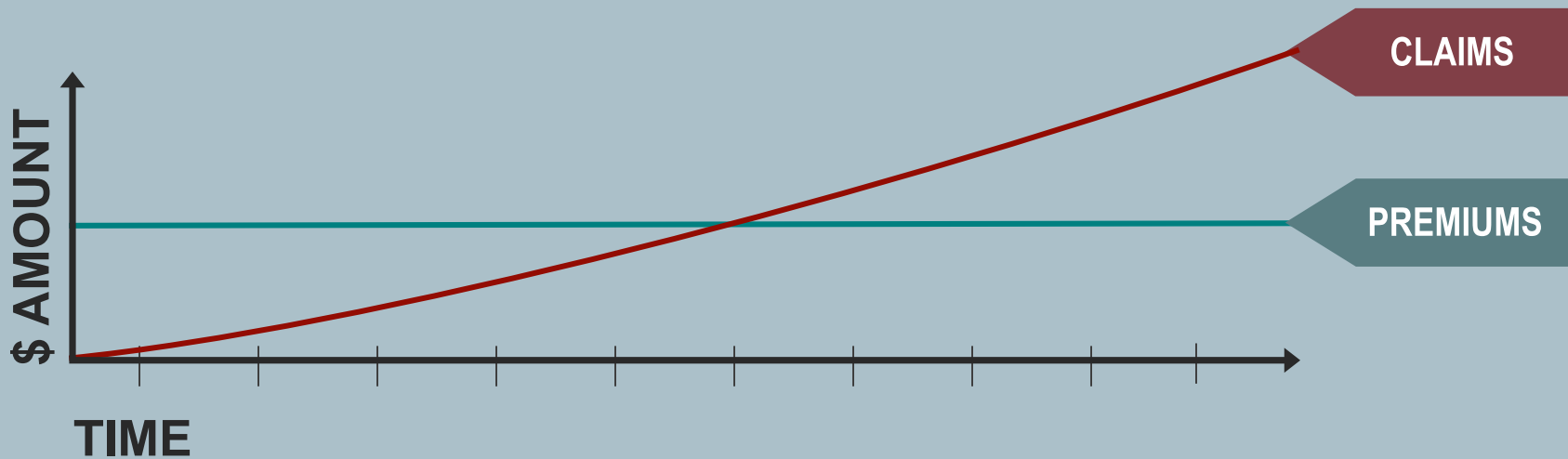
Premiums

Premium rates do not increase with age.

However, **claims** are expected to increase over time.

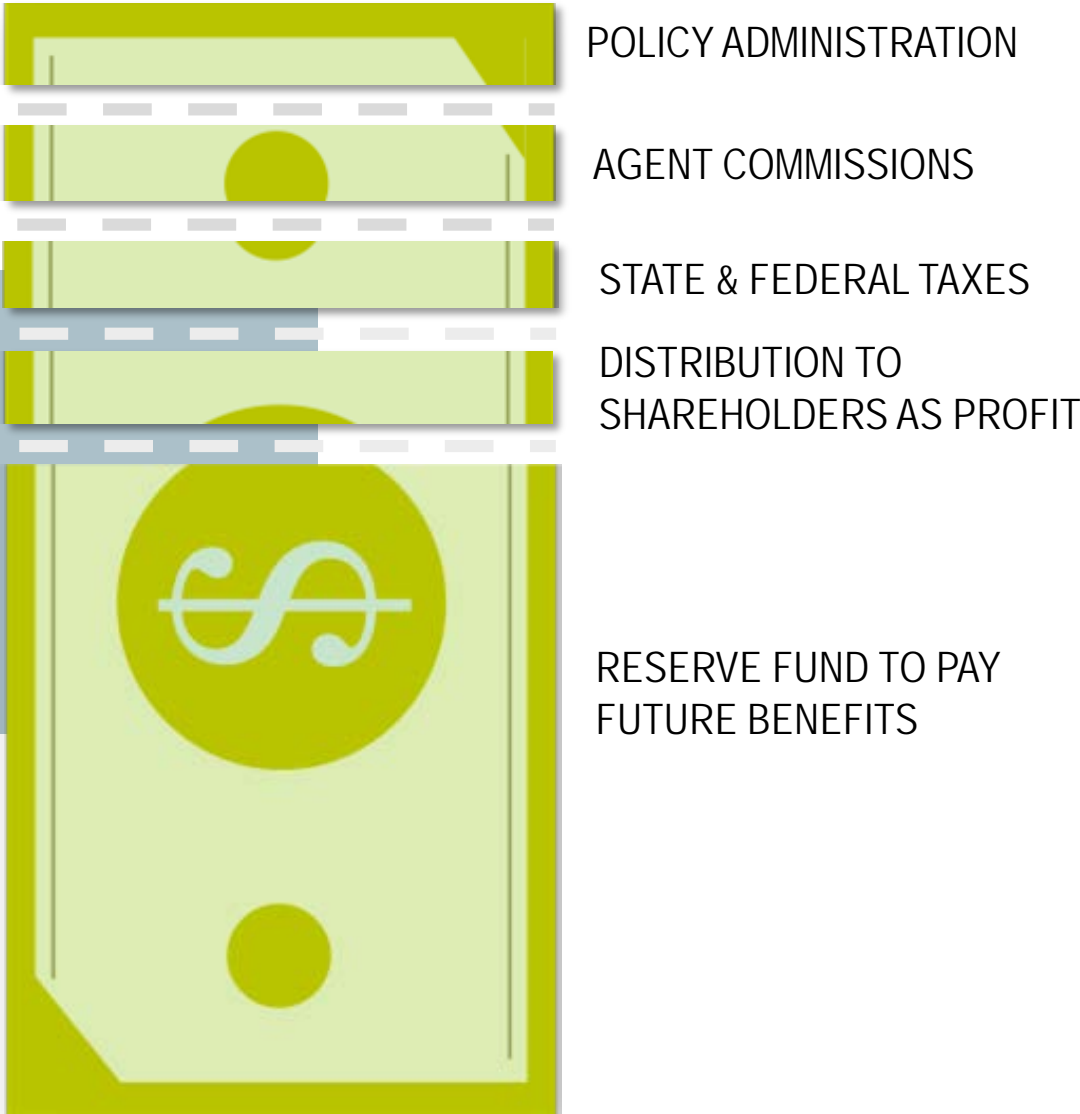
Insurers must set aside **some of the premiums** in early years in a **reserve**.

Insurers use this reserve to **fund claims** in later years.



Setting Premiums Aside

Premium dollars are used as follows:



The Reserve is Like a Savings Account



Net premiums
DEPOSITS



Benefit payments
WITHDRAWALS

Like a savings account, it earns **INTEREST**

- The savings account is held for the benefit of all the policyholders.
- It can only be used to pay benefits for those who become disabled.
- It is not paid to people who die or stop paying premiums.

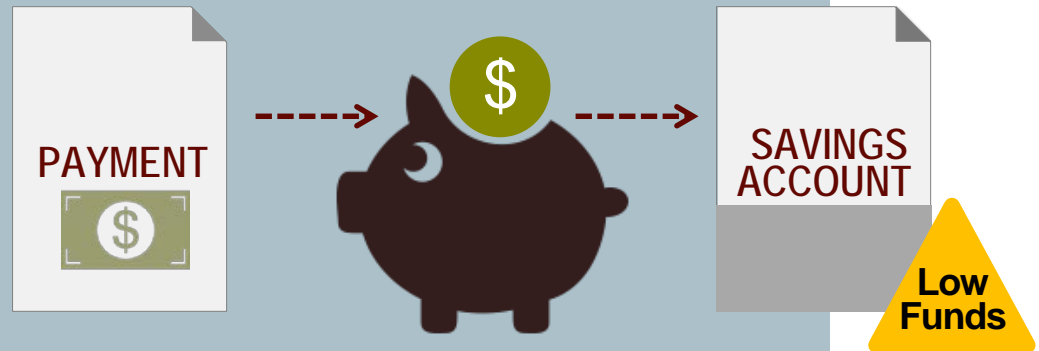


The Net Premiums are Like Scheduled Deposits

The scheduled deposit amount (premium rate) is determined at the beginning based on estimates about:

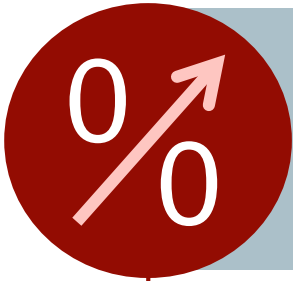
- ① Amount that will be withdrawn (benefit payments)
- ② Interest rate that will be earned

If either of these estimates are different, the account may not have enough to cover future withdrawals.



WHAT CAN GO WRONG?

Interest Rate



The **interest** can **change** if the economy changes.

Changes in economic conditions in the past 20 years have led to a dramatic drop in interest rates.

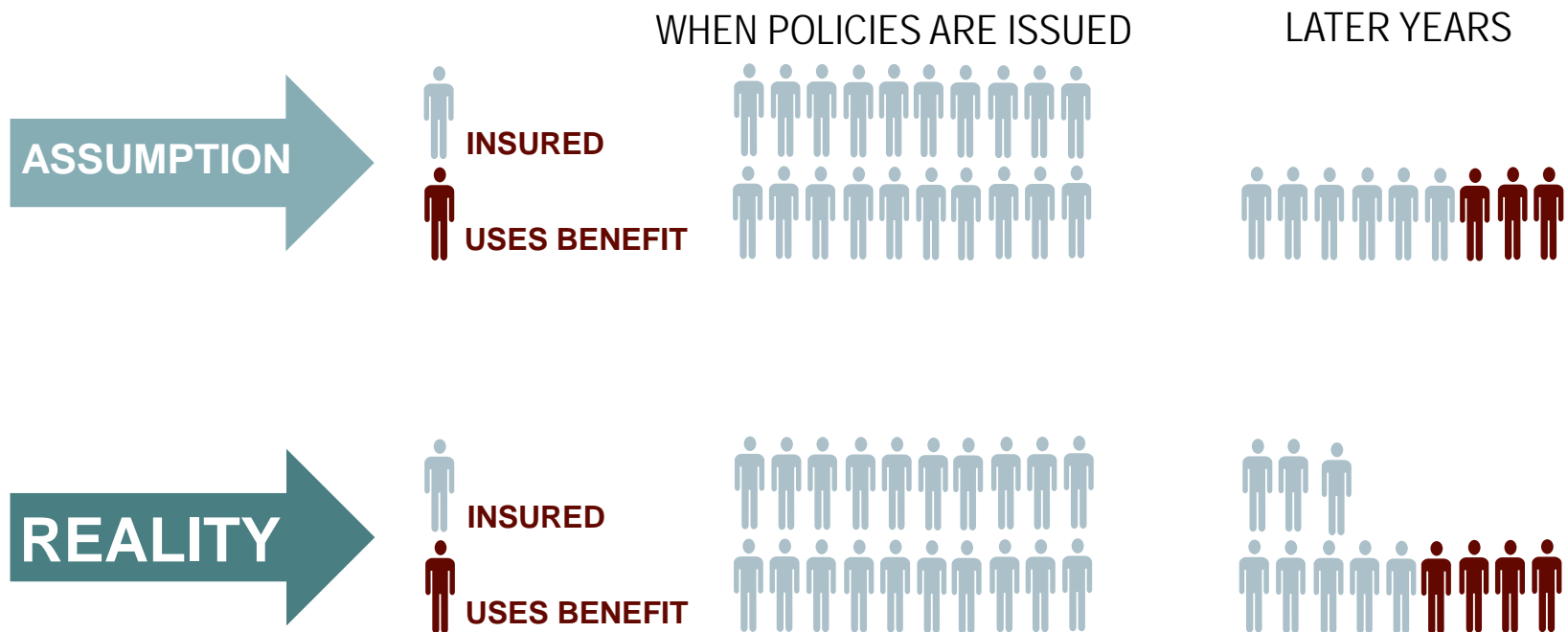
Many companies assumed that interest rates would be **6% to 8%** when products were priced in the **1990s**

Rates have dropped to **3% to 4%**

Withdrawals From the Savings Account

The amount of funds withdrawn is dependent on 3 key things:

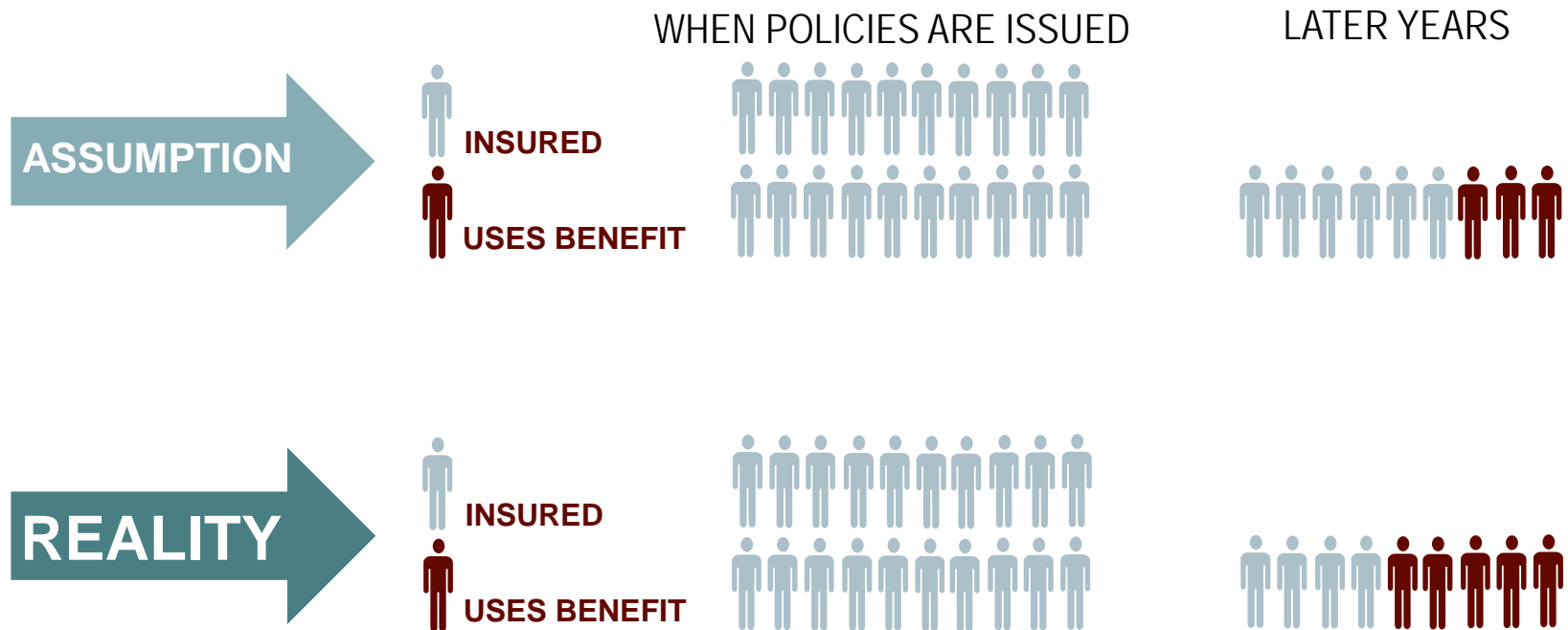
- 1 The number of people that keep their policies up to the point when benefits begin to be paid



More people have kept their policies than originally expected.
People are also living longer than originally expected.

Withdrawals From the Savings Account

2 Of the people who keep their policies, the number of people who use benefits



Industry experience has been mixed compared to what was originally thought.

Withdrawals From the Savings Account

3

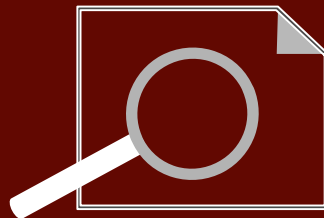
Amount that is paid out to people who use benefits

Recall that a **lump sum benefit** is not paid when a person becomes disabled.



Amount paid **will not be known in advance.**

This amount paid is estimated based on past observations.



It will depend on:

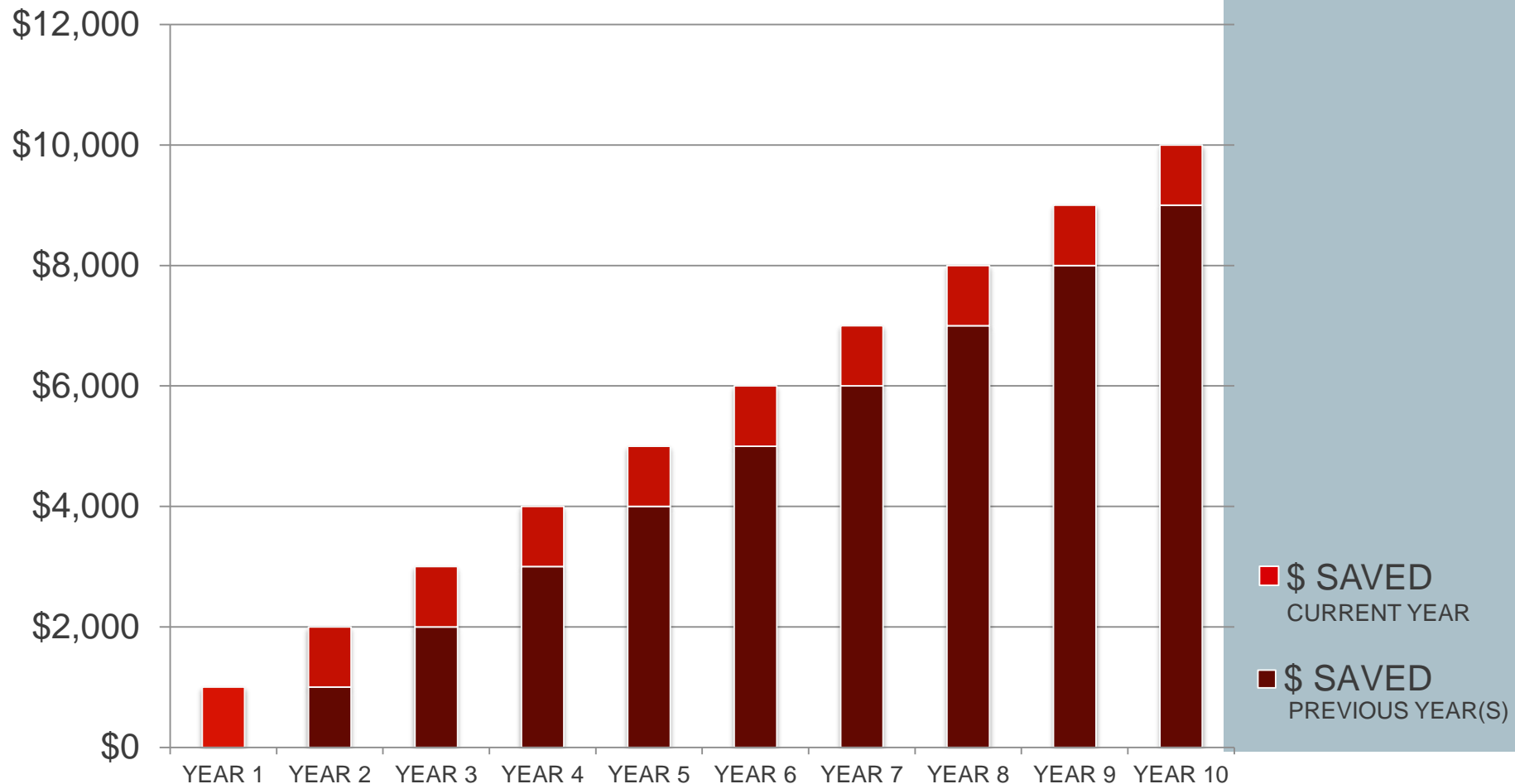
- Number of days of disability
- Intensity of care
- Cost of care

Length of time in nursing homes has not changed much. However, more people are receiving care in assisted living facilities, where people live longer. This has led to higher benefits being paid.

**WHAT HAPPENS WHEN ESTIMATES ARE NOT
REALIZED?**

A Simple Savings Plan Example

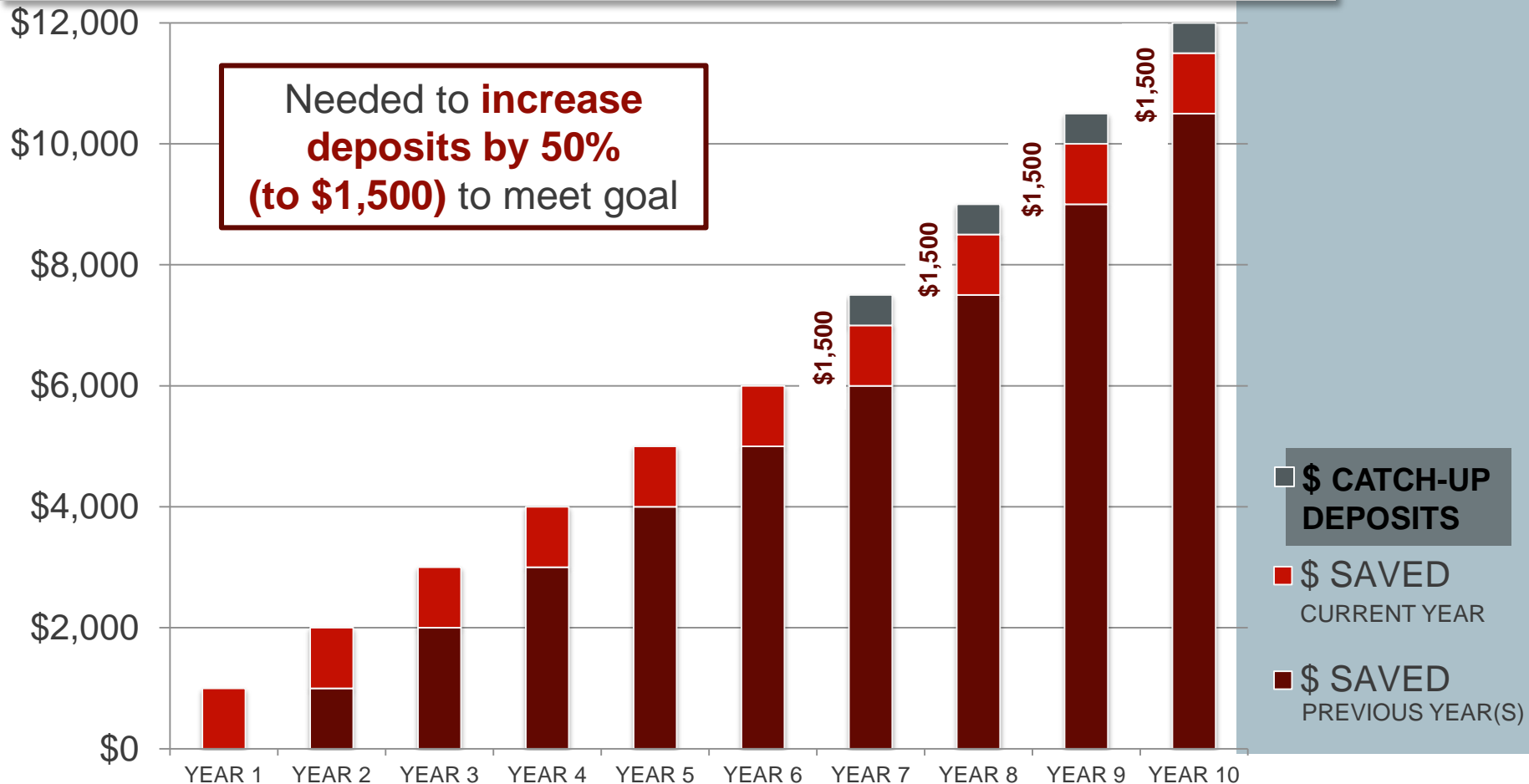
ORIGINAL GOAL: \$10,000 in 10 years



When Not Enough is Saved: Need to “Catch-Up”

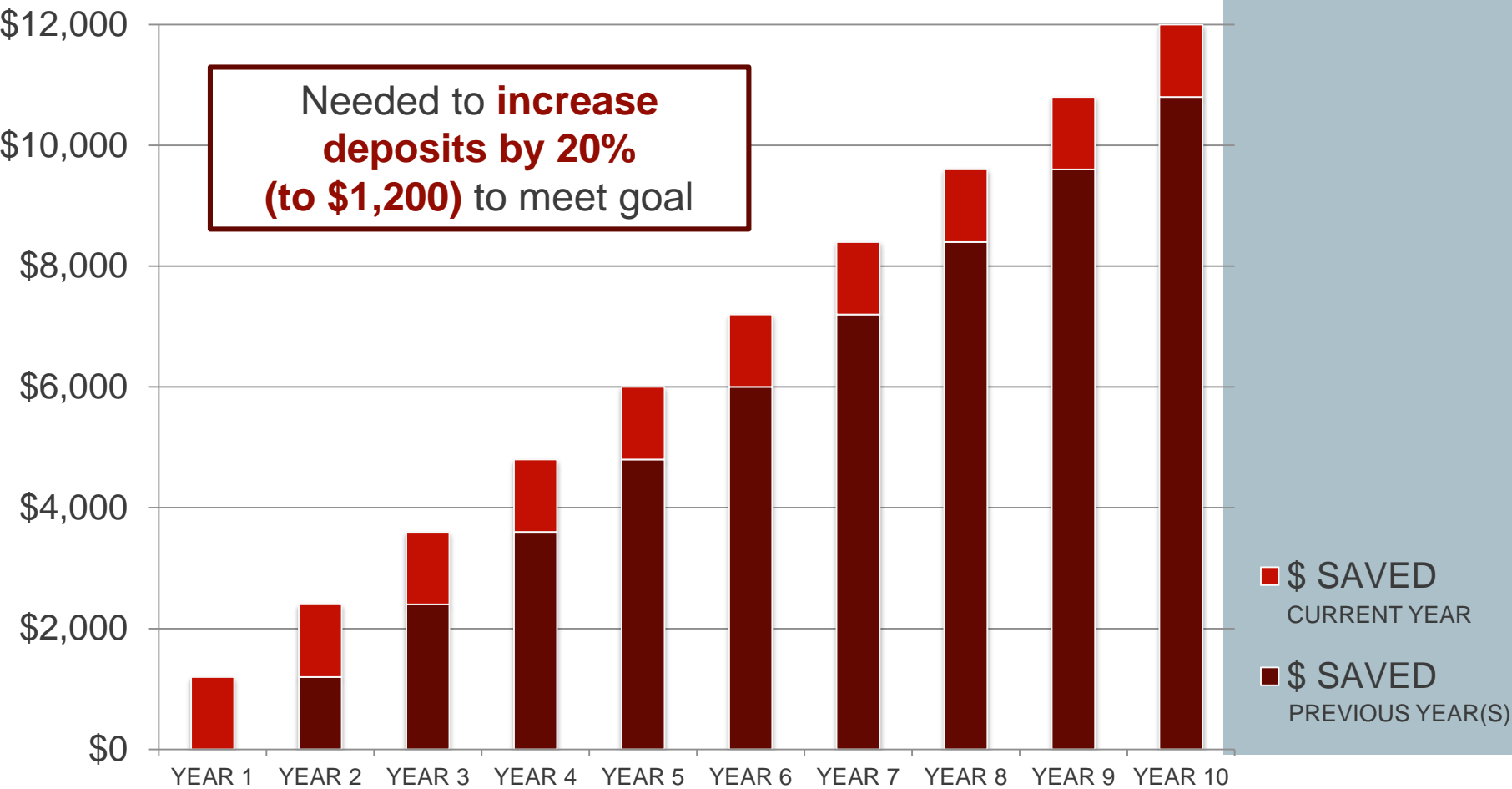
ORIGINAL GOAL: \$10,000 in 10 years

NEW GOAL AFTER 6TH YEAR: \$12,000 is needed by 10th year



With Hindsight

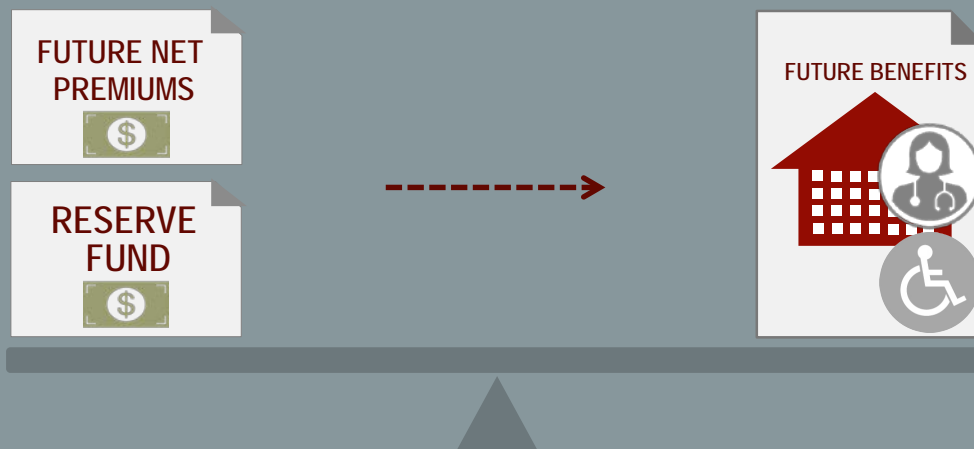
THE “HINDSIGHT” DEPOSIT SCHEDULE



Application of the Simple Example: How it Should Work

In this example of a block of LTC policies, at a given point in time:

EXAMPLE: NET PREMIUMS (DEPOSITS) AND THE RESERVE FUND ARE ENOUGH TO FUND FUTURE BENEFITS

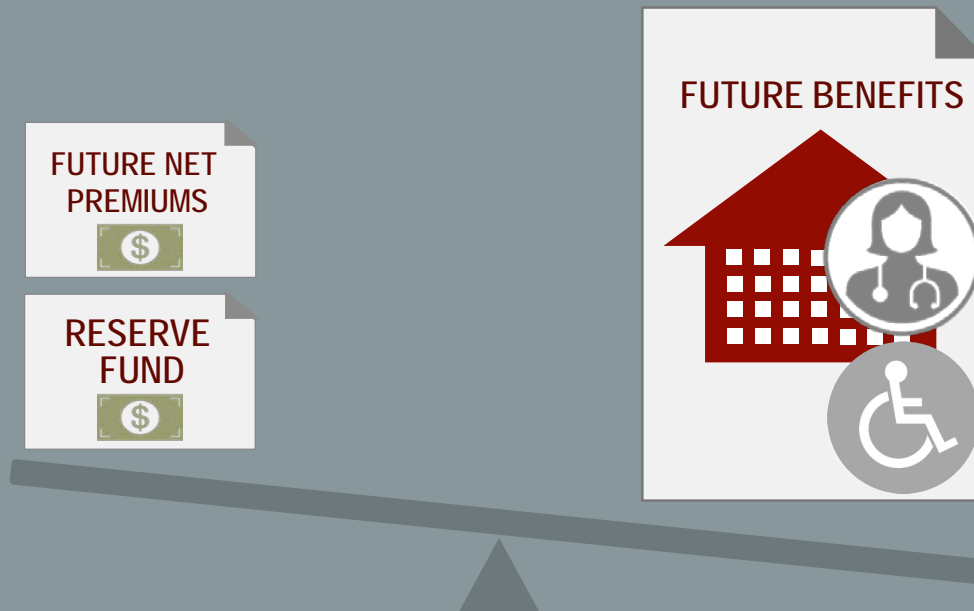


This model shows the two sides in balance.

Out of Balance

In this example of a block of LTC policies, at a given point in time:

EXAMPLE: EXPECTED FUTURE WITHDRAWALS OUTWEIGH THE DEPOSIT SCHEDULE

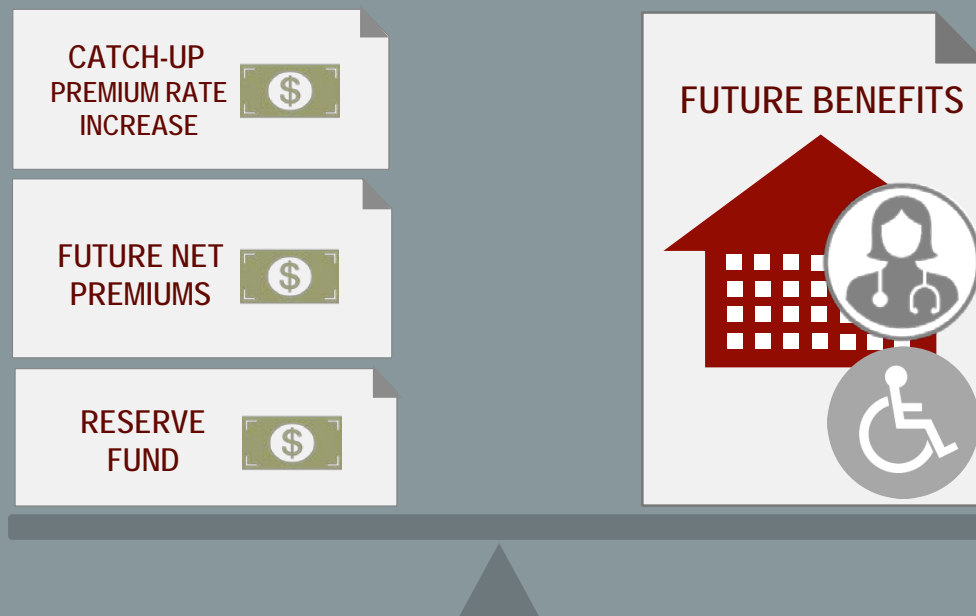


The two sides are out of balance. There will not be enough money to fund benefit payments.

Restore Balance: Premium Rate Increase

In this example of a block of LTC policies, a premium rate increase is implemented to restore balance:

EXAMPLE: PREMIUM RATE INCREASES RESTORE BALANCE

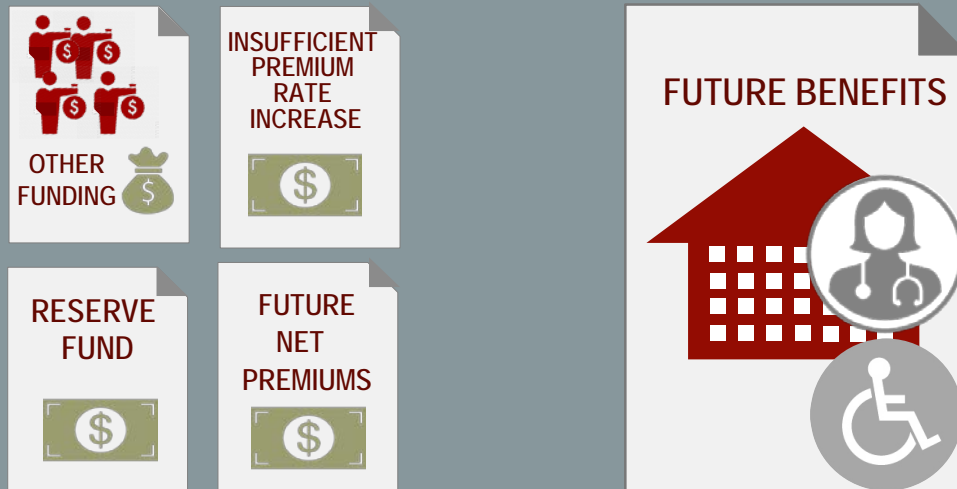


Balance is restored via rate increases.

Restore Balance: Include Other Funding

In this example, a premium rate increase is implemented, but it is not enough to restore balance:

EXAMPLE: BALANCE RESTORED THROUGH OTHER FUNDS



Other funding must come from:

Company surplus:
one-time “deposit”
which is ultimately from
other policyholders or
shareholders.

Other policyholders:
Taken as needed from
premiums of other
policyholders

QUESTIONS?