

THE CRISIS CREDIT

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http://crisisofcredit.com/

GEOGRAPHY OF A RECESSION

http://www.nytimes.com/interactive/2009/03/03/us/20090303_LEONHARDT.html?ref=economy http://money.cnn.com/news/storysupplement/economy/bank_failures/

ROAD TO RECOVERY

THE GOVERNMENT AS INVESTOR

\$4.6 trillion

SPENT: \$921 BILLION

Includes direct investments in financial institutions, purchases of high-grade corporate debt and purchases of mortgage-backed securities issued by Fannie Mae, Freddie Mac and Ginnie Mae.

THE GOVERNMENT AS LENDER

\$2.4 trillion

SPENT: \$666 BILLION

A significant expansion of the government's traditional overnight lending to banks, including extending terms to as many as 90 days and allowing borrowing by other financial institutions.

THE GOVERNMENT AS INSURER

\$1.8 trillion

SPENT: \$252 BILLION

Includes insuring debt issued by financial institutions and guaranteeing poorly performing assets owned by banks and Fannie Mae and Freddie Mac.

Commercial paper	Committed: \$1.6 trillion
The Federal Reserve has become the buyer of last resort in the \$1.6 trillion commercial paper market.	Spent: \$257 billion
Public-private investment fund	\$1.0 trillion
This fund, which is not operational yet, will seek private investors and use a combination of private and public money to buy nonperforming assets from banks.	\$0 billion
Troubled Asset Relief Program (TARP) See TARP recipients »	\$700 billion
In return for bailout cash, the Treasury now owns stock in hundreds of banks, General Motors, Chrysler and the insurer A.I.G. The two largest recipients are Bank of America (\$45 billion) and Citigroup (\$45 billion cash and \$5 billion in support of a loan guarantee).	\$510 billion
Federal Home Loan Bank securities	\$600 billion
The Treasury and the Federal Reserve have begun buying debt and mortgage- backed securities from Fannie Mae, Freddie Mac and Ginnie Mae.	\$212 billion
Money market funds	\$600 billion
The Treasury originally guaranteed these accounts up to \$50 billion, but the program has been extended by the Federal Reserve, which has, in a few cases, had to step in and buy some illiquid assets of some funds to help them meet their obligations.	\$17 billion
A.I.G.	\$53 billion
The Federal Reserve has provided seed money to create investment vehicles to buy, hold and possibly dispose of bad securities held or insured by A.I.G.	\$44 billion
Bear Stearns	\$29 billion
The Federal Reserve bought distressed assets from Bear Stearns to facilitate its sale to JPMorgan Chase.	\$29 billion
Reserve U.S. Government Fund	\$4 billion
Despite the name, this was a private fund, not part of the government. It was the first big money market fund to experience liquidity problems, and the Treasury eventually bought some high-quality assets to help the fund unwind.	\$4 billion

Keeping Tabs on the \$700 Billion Bailout

The Treasury Department's \$700 billion buttress to the financial system was expected to enable banks to make more loans to companies and consumers.

But the Treasury has indicated that the 52 banks already funded by the program have mostly used their investments — \$161.5 billion so far — to bolster their balance sheets at a time when options for raising capital are slim. And analysts expect that the more than 100 banks that have yet to receive money will be similarly cautious.

Treasury Secretary Henry M. Paulson Jr. has acknowledged that "lending won't materialize

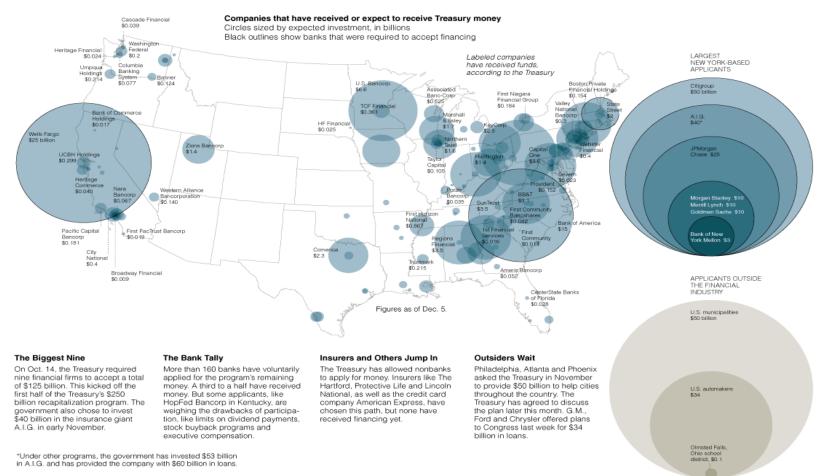
as fast as any of us would like," but has said that loans will begin to flow as confidence returns.

Some analysts agree. "In a few quarters, banks should be comfortable enough to begin to put that new capital to work," said Mark Fitzgibbon, a banking analyst at Sandler O'Neill & Partners.

But regulators will have to keep a watchful eye on banks, say officials in the Government Accountability Office. In a report released on Thursday, the office urged the Treasury to increase its oversight of the program, as banks are not currently required to report on their use of government dollars.



THE NEW YORK TIMES



Approaches to Recovery: Credit Crisis

Government Approach

 Public-Private Investment Program (P-PIP) — a federal program designed to buy back troubled assets on the balance sheets of lending institutions

Market Approach

 Peer-Peer Lending - market makers and sales advisers for debt securities can sell, possibly on behalf of the federal government, troubled assets (example companies: DebtX, Prosper)

Approaches to Recovery: Mortgage Crisis

- Key components of any mortgage crisis policy should:
 - Help homeowners facing foreclosure remain in their homes
 - Not be considered a bailout for mortgage lenders and investors, creating a moral hazard
 - Limit the costs to the federal government
 - Be able to be implemented quickly

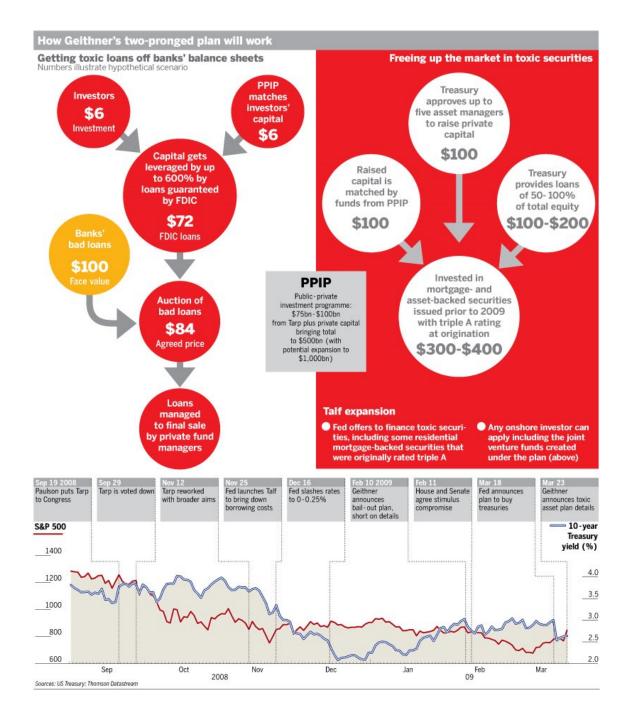
Approaches to Recovery: Mortgage Crisis

Congressman Barney-Senator Dodd Proposal

- Have the FHA refinance loans that reduce the principal owed up to 90%
- Establish an auction process to expedite refinancing
- Similar to proposals from the Office of Thrift Supervision, the National Community Reinvestment Coalition, investment banks, academic economists, etc.

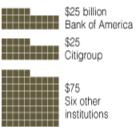
Home Appreciation Mortgage Plan

- Have the mortgage lenders refinance loans that reduce the principal owed up to 90% of the first and second mortgage loans
- Modify original first mortgage loan and second home appreciation loan (backed by FHA)
- If sold if 3-10 years, equity is shared between lender and homeowner (also used to pay off FHA fees and lender write down amounts)



Drawing Down TARP

Just over half of the Treasury Department's \$700 billion Troubled Asset Relief Program, or TARP, was committed during the Bush administration. On Tuesday, Treasury Secretary Timothy F. Geithner unveiled some details about how the new administration would use the fund.



\$125 Capital for big banks Congress required nine big banks to participate in the

program. The \$10 billion for Merrill Lynch went to Bank of America after their merger.

-----\$25 Citigroup \$45 Additional capital for big banks

Bank of America

\$20

\$125 Capital for small banks Available to public and private financial institutions by application. As of Feb. 11, the Treasury has purchased stock from more than 350 companies.

\$54.4 Funds

still available

\$70.6 Allocated

> \$40 Capital for A.I.G.

\$24.8 Capital for

COMMITTED UNDER THE BUSH ADMINISTRATION

\$379.8 billion

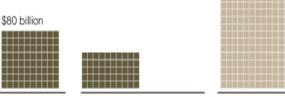
automakers

\$20 billion

\$100 Funds to back a Fed program that will encourage lending to consumers and business

ANNOUNCED TUESDAY \$320.2 billion

 Equivalent to \$1 billion committed Equivalent to \$1 billion not yet committed



mortgages.

\$190.2 Remaining funds \$50 Help for homeowners A new program is planned to help millions of homeowners facing foreclosure to renegotiate the terms of their

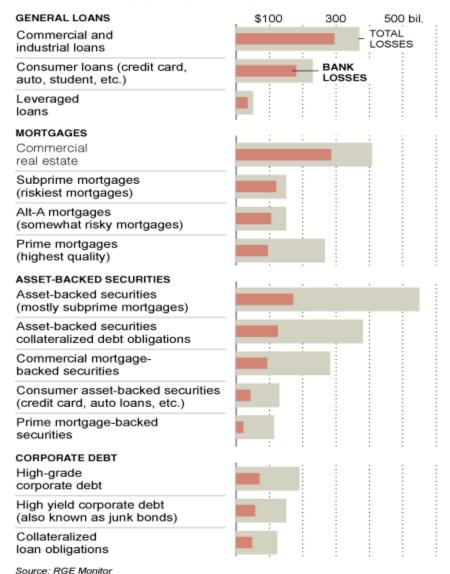
Without providing an exact figure, the Treasury said that remaining TARP funds could be used for additional capital injection into banks.

Source: Treasury THE NEW YORK TIMES

An Estimate: Adding Up Bank Losses

Analysts say they believe that banks will have more losses, but estimates vary of how much. Here is a breakdown by RGE Monitor, a consulting firm started by Nouriel Roubini, an economics professor at New York University. RGE's total estimated bank losses are \$1.7 trillion to \$1.8 trillion.

ASSUMPTIONS Total contraction in the United States economy from its peak reaches 5 percent; housing prices decline another 20 percent from current levels; unemployment peaks at 9 percent.



http://www.nytimes.com/ 2009/02/13/business/ economy/13insolvent.html? pagewanted=2& r=2

BENCHMARKING PROJECTS

CityCentre, Las Vegas NV

• Estimated Costs: \$14.6 billion



http://www.condohotelcenter.com/images/mgm-city-center.jpg

Central Artery/Tunnel, Boston MA

• Estimated Costs: \$14.6 billion



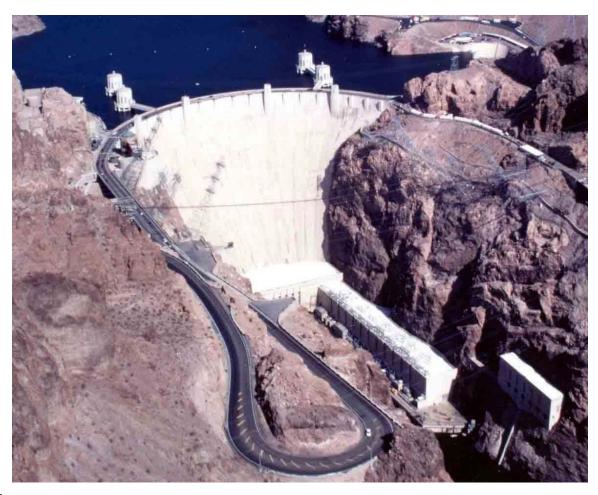
Eurotunnel

• Estimated Costs: \$ 16 billion (1994)



Hoover Dam, Boulder City NV

• Estimated Costs: \$690 million



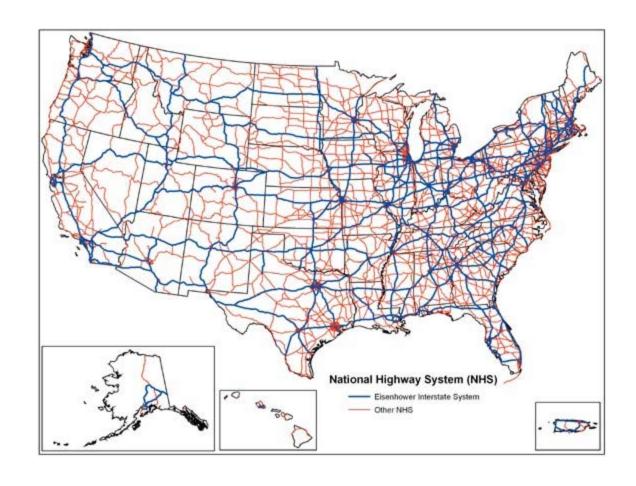
Panama Canal

• Estimated Costs: \$14.3 billion (2007 dollars)



Interstate Highway System

• Estimated Costs: \$500 billion



Masdar City, Abu Dhabi UAE

• Estimated Costs: \$22 billion



Hong Kong International Airport

• Estimated Costs: \$20 billion



Definitions

- Subprime Mortgages loans made to borrowers with less than perfect credit
- Collaterized Debt Obligations an asset-backed securities issued with several maturity and credit risk characteristics
- Troubled Asset Relief Program (TARP) a P-PIP initiative established to buy back assets from lending institutions
- Term Asset-Backed Securities Loan Facility (TALF) a federal program established to buy securities (i.e. issue credit) for different types of debt, including credit card, auto, student and small business loans