

THE GREAT DEPRESSION 2.0	
A recipe for the perfect financial disaster:	
1. Low IR make credit easy, high IR promote riskier lending: timing!	
2. House bubble (peak in 2004):	
 fueled by / fuels easy credit due to large foreign capital inflows 	
 financial innovation: MBS, CDO, CDS and other products provide artificial liquidity, opening a secluded segment to capital markets 	
 revisits business models: originate-to-distribute 	
 Boosted by deregulation and lax lending standards, decreased transparenc and fragility of shadow banking 	у
4. Burst: capital flows stop, losses arise, foreclosures explode	
5. Banks hit from all sides: as investors, creditors of households and firms,	
 Intervention of CBs (facilitating lending and improving access to credit) and governments (bailing out troubled institutions and spending beyond tax inflows) transform private into public debt issues 	b
7. Future expectations do not improve and recovery lags: deleveraging	
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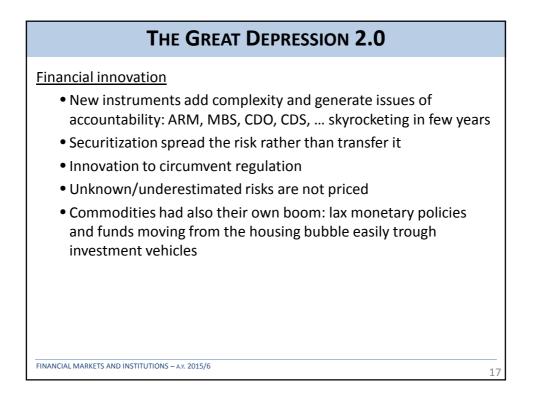
Main indicted felons

Subprime mortgages:

- Lots of lenders, few good borrowers, high competition, revenues available relaxing underwriting: risky loans
- Still, a small percentage (20% tops) of a small market
- Some attribute to government-sponsored institutions (Fannie Mae/Freddie Mac) the conflict of interest between affordable housing and profitability
- House values grow: refinancing at lower IR on appreciation
- Demand for higher and "safe" returns: investment banks' fees to ease access to mortgage lending with good credit ratings, predatory lending
- OTD: agency issues and asymmetric information problems

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THE GREAT DEPRESSION 2.0 Easy credit and predatory lending: Low IR, after "dot-com" and 9/11 shocks, promotes easy lending • US current account deficit, inflow of foreign funds (emerging and oil countries), high borrowing lowers IR • Fast growing IR until the peak of the crisis lower incentives but late, in the meantime promoting relaxed underwriting standards • Higher costs or risks than advertised (f.i. ARM with very low initial interest-only payments and negative amortization), forgery of documents to enhance distribution • Conflicts of interests: in rating agencies also advising new issues of securities in mortgage and CDOs originators in banks lending and servicing securitizations FINANCIAL MARKETS AND INSTITUTIONS - AX 2015/6 16



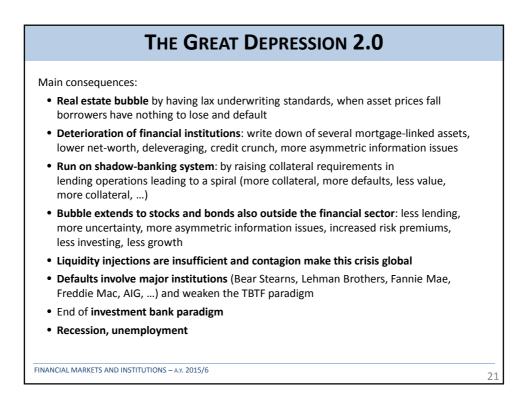
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Deregulation and leveraging:
 Reduced separation between investment and commercial banks
 Increased deposit insurance: more safety nets, less monitoring
 Lack of regulation on shadow banking
 Weak transparency of derivatives
 Poor accountability of off-balance sheet leveraging
 Over indebtedness involved households and firms too
Shadow banking
 Unregulated entities challenge underwriting of banks and become critical in providing lending opportunities
• Fragile during run to withdraw funds and to cope with
securitizations' breakdown
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THE GREAT DEPRESSION 2.0: BRIEF TIMELINE

- 2007
 - AUG: panic after pricing difficulties experienced by mortgage/CDO investors: trillions of derivatives unaccounted throughout the global financial system (BNP)
 - SEP: Northern Rock (UK) faces liquidity crisis from securitizations
- 2008
 - JAN: largest fall in US house selling in 25y announced
 - FEB: Northern Rock nationalised
 - MAR: Bear Stearns bought by JP Morgan to avoid bankruptcy
 - MAY: US Treasury says "the worst is over"
 - SEP: bailout of Freddie Mac / Fannie Mae, bankruptcy of Lehman Brothers, rescue of HBOS by Lloyds TSB, Goldman Sachs and JP Morgan Chase move from investment banks to holding companies, bankruptcy of Washington Mutual and Wachovia (US), Ireland - into recession - promised bailout of whole banking system (not happened)
 - OCT: US government project for "toxic" assets, collapse of Iceland's 3 biggest banks (and freeze of UK assets), joint cut of IR by BoE/ECB/FED/other 5, bailout of several UK banks (RBoS, Lloyds TBS, HBOS)
 - NOV: 1m unemployment for US +240,000, from "toxic" assets program to cash injections in US banks, G20 summit, Gordon Brown thinks "we saved the world"

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•	2009	
	APR: G20 global stimulus package (5trnUSD)	
	OCT: elections in Greece and evidence of hiding the size of public imbalances	
•	2010	
	APR: Greek debt rated as junk	
	MAY: first Greek bailout	
	NOV: Irish bailout	
•	2011	
	MAY: Portuguese bailout	
	JUL: second Greek bailout	
	AUG: downgrade of US debt	
•	2012	
	FEB: new Greek austerity package	
	MAR: highest EU unemployment ever recorded	
	JUN: record Spanish borrowing	
	JUL: "whatever it takes"	
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CRISES IN EMERGING MARKETS
Similar steps, although with some differentiations:
 Regulation/supervision weaker and globalisation incentives risky lending, with the typical consequences
 Fiscal imbalances of government budgets lead to requiring banks to acquire public debt, weakening their balance sheets
 Less collateral is available, hence increasing asymmetric information problems
 Foreign monetary policies can increase dependent countries' IR
Instability of political systems
 Usually a currency crises occurs also due to international speculation, increasing inflation
 To attract capitals IR are increased, leading to issues for highly leveraged institutions (banks, but also other borrowers)
Banks and debtors defaults
 If recovery does not take place, usually whole countries default or call for debt restructuring (f.i. Argentina, Indonesia,)
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