

Development of Financial Markets and Institutions III. Early European and American Financial Development

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III. EARLY EUROPEAN AND AMERICAN FINANCIAL DEVELOPMENT

- 1. The London Stock Exchange
- 2. Financial Institutions up to 1800
- 3. American Experiments in Paper Money
- 4. Financial Development and Industrialization
- 5. British Banking in the Booms
- 6. Literature



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1. THE LONDON

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FINANCIAL MARKETS

Definition: Markets in which financial assets are bought and sold

- Debt and equity markets
- Primary and secondary markets
- Exchanges and over-the-counter markets

Eighteenth Century Status

- All these markets were well-developed
- Key centres: Amsterdam and London
- Widespread trade outside centres as well
- The markets for bills of exchange continued to be very important

FINANCIAL INSTITUTIONS

Definition: intermediaries between borrowers and lenders

- Banks
- Banks of issue
- Funds
- Brokers (notaries, solicitors)

Eighteenth Century Status

- Banks of issue were well-established, above all in Great Britain
 - Bank of England, country banks
 - Scottish banking
- Intermediation creates negotiable financial assets: bills of exchange and bank notes

THE LONDON FINANCIAL MARKET

1720 Status

- The London financial markets continued to function after the bubble
- Amsterdam still the main financial centre
 - Dealing in foreign government bonds and VOC and other stock

London Trade

- Stock brokers traded mainly in government securities
- Stock meant government bonds and stock in companies
- London brokers met informally in coffee houses
- Ship underwriters in Lloyds Coffee House a precursor active there since 1686
- London stock brokers first formed a club in Jonathan's Coffee House in 1762

THE LONDON STOCK EXCHANGE

The Challenge

- There was no official enforcement of stock exchange rules, trades between brokers and so on
- In fact, government often hostile to the stock market

The Solution (Stringham 2015, chap. 5)

- In the absence of official enforcement, private clubs were a way to enforce contracts
- Earlier coffee house clubs examples of this
- London Stock Exchange founded in 1801 as a private club
- Organized as a self-governing body

THE LONDON STOCK EXCHANGE

Constitution of the Exchange

- Distinction between owners ("the company") and members of the exchange
- Owners in control, made the rulers, members traded
- Owners charged a fee from members
- New members had to be nominated by at least three old members and needed approval
- This guaranteed new members were reliable would pay the fees and stick to the rules

Function of the Exchange

- The company had an interest in expanding membership
 - ➤ Their income depended on fees
 - but also had an interest in securing high-quality members
- The Stock Exchange proved innovative: 1819 options, 1822 foreign securities



FRENCH NOTARIES AND FINANCE

Decline After 1720

- Notaries were the main intermediaries (Hoffman et al. 2019)
- Mostly dealt in private loans not government debt
- Short to medium term loans seem to have dominated: up to five years duration

Decentralized Networks

- Notaries worked in decentralized networks
- Very hard to estimate size 20 percent of GDP in loans (Hoffman et al. 2019)
- Some notaries attempted to form a bank: crashed in the 1760s
- Notaries and solicitors were also important intermediaries in other countries

THE CAISSE D'ESCOMPTES

New Attempt at a Bank of Issue

- The Caisse d'Escomptes 1776-1793 (Bindseil 2019, 266-271)
- Sponsored by the financier Isaac Panchaud and Turgot, the minister of finance
- The Caisse had the largest note circulation after the BoE

Business of the Caisse

- Not intended to finance government but began discounting government paper 1778
- Half its assets were government debt by 1788
- The Caisse a bankers' bank: all the leading Parisian financiers invited to subscribe capital
- Ended by the Revolution

BANQUE DE FRANCE

Establishment 1800

- Followed the model of the Caisse many of the same financiers in the lead
- Reward to financiers for supporting Napoleon

A Privileged Bank

- Monopoly on note issue in Paris
- 1815 this monopoly privilege extended to all of France
- Bank reorganized 1806, governor and two deputies appointed by the emperor
- 1808 bank notes made legal tender
- No French banking system parallel to England and America before the 1840s

ENGLISH FINANCIAL INSTITUTIONS

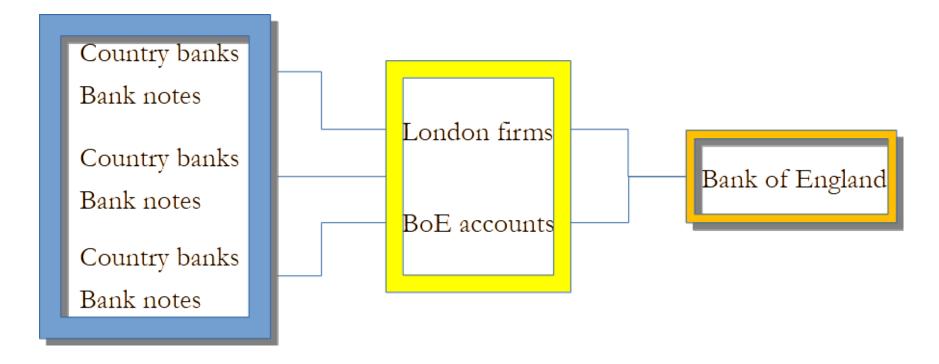
Bank of England

- Established 1694, the main bank of issue
- Parliament 1708 prohibited banks with more than six partners from issuing notes
- BoE had virtual monopoly in London

The Country Banks

- Country banks sprang up across England, especially fom 1750 (Pressnell 1956)
- Country banks issued their own notes based on BoE notes
- They were all connected to the London money market
 - All had a correspondent bank in London, which in turn had an account with the BoE
- Discounting bills of exchange the key business for the banks

ENGLISH BANKING IN THE EIGHTEENTH CENTURY











SCOTTISH BANKING

Free Banking in Scotland (White 1984)

- Scottish banking described as free until 1846
- Banks of issue supplied notes competitively
- No special privileges or government assistance or involvement

Organization of Scottish Banking

- Three chartered banks:
 - ➤ Bank of Scotland (1696), Royal Bank of Scotland (1724), British Linen Company (1746)
- There were also numerous unchartered banks
- All bank notes redeemable in specie (in theory)
- Banks kept account with each other to stabilize outstanding note issue
 - Clear bank notes
 - > Prevent over-issue by any one bank

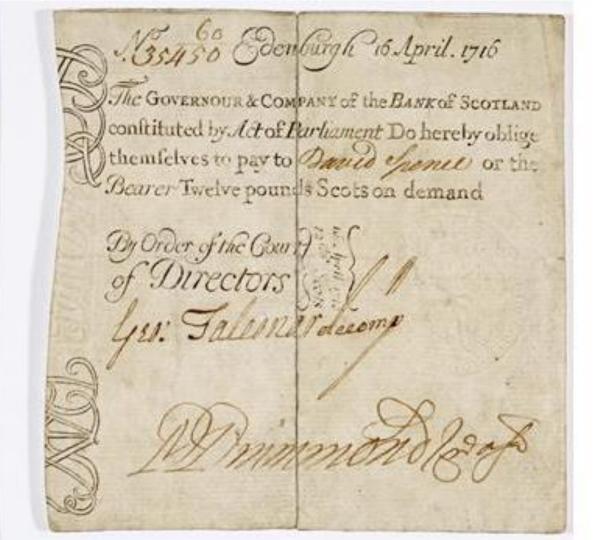
SCOTTISH BANKING

Bank Notes Dominant in Scotland

- Success of free banking?
- Banking superior to other kinds of finance?
- But status of Scottish banking as free has been disputed (Rothbard 2008, appendix)

Problems of Scottish Banking

- Specie redemption greatly discouraged: a merchant who insisted might find it very hard to acquire credit in the future
- Englishmen trying to redeem Scottish notes "chased across the border"
- Scottish banking not really independent of the Bank of England
 - Reserves
 - Scottish banks followed BoE when it suspended specie payment





A View of the Deluge of Scotch paper Currency for English Gold.

3. AMERICAN
EXPERIMENTS IN
PAPER MONEY

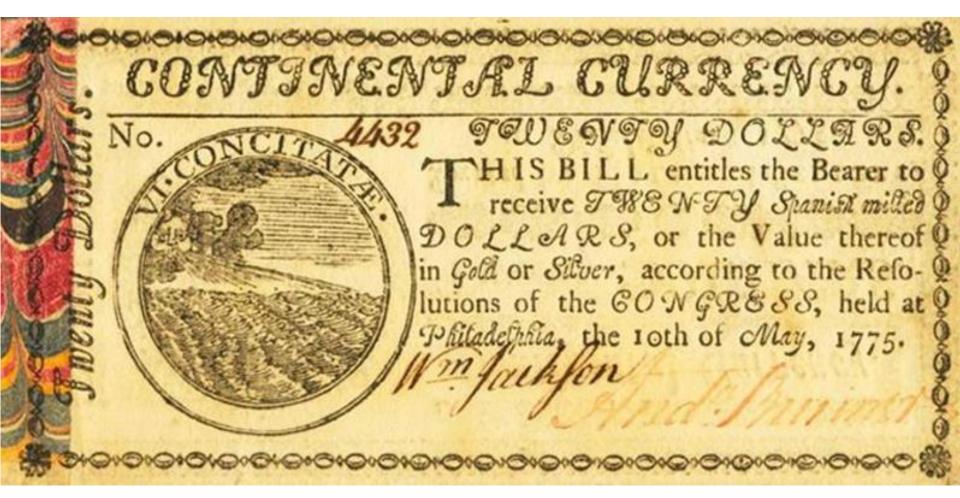
REVOLUTIONARY PAPER MONEY

The Continental

- The Revolutionary Congress began issuing paper notes in 1775
- The supply radically expanded
 - Newly issued in 1775: \$6 million, 1776: \$19 million, 1777: \$13 million
 - > 1778: \$64 million, 1779: \$135 million
- In total, \$235 million were issued over five years

The Purpose: To Fund the War

- States were supposed to fund the notes out of taxes, but levied no taxes before 1780
- The individual states too issued notes: total of \$210 million
- Money supply 1775: \$12 million



CONTINENTAL INFLATION

Result: Depreciation and Inflation

- Prices rose rapidly in terms of continentals, including price of specie
- December 1776, 1 Continental = \$1-1.25 in specie
- October 1777, the ratio was 3:1
- December 1778, it was 6.8:1; in December 1779, 42:1
- April 1781, the ratio was 168 : 1 the Continental worthless

Government Response

- plunder by the army and price controls in the several states
- All wartime paper withdrawn from circulation by end of 1783

FIRST BANK OF THE UNITED STATES

Bank of North America

- First note-issuing bank
- Chartered 1781 received monopoly privileges in return for lending to government
- Bank notes not trusted outside Philadelphia redeemed into specie
- Converted into private commercial bank 1783

First Bank of the United States (BUS)

- Chartered 1791, 20 year charter
- Championed by Alexander Hamilton
- Reason: to overcome "shortage" of specie
- New paper money to be invested in public debt and cheap credit to manufactures

FIRST BANK OF THE UNITED STATES

Great Expansion of Commercial Banking

- 18 new banks in the first five years of BUS's existence
- 28 state banks chartered in 1800, total of 117 by 1811

Defeat of BUS 1811

- But State banks continued to expand: total of 246 in 1815
- Specie reserves fell while bank notes and deposits expanded
- Credit expansion fuelled war of 1812 and speculation (Panic of 1819)

Special Privileges for Banks

- Allowed to suspend specie payment in 1814
- This privilege repeatedly extended in 1819, 1837, 1839, 1857

THE SECOND BANK OF THE UNITED STATES

Second BUS Chartered in 1817

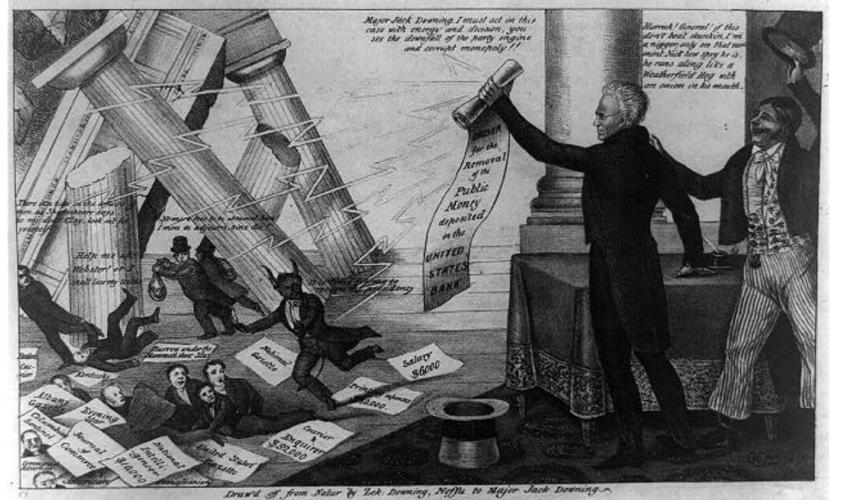
- Private corporation 1/5 state owned
- Notes redeemable in specie
- Notes legal tender for taxes

Support for State Banks

- BUS promised to support in emergencies
- Promised to extend loans of \$6 million in January 1817 to banks

Inflation and the Second BUS

- Greatly increased the money supply contraction and Panic of 1819 followed
- Disestablished 1832 by Jackson, charter not renewed in 1836



THE DOWNFALL OF MOTHER BANK.



CANAL MANIA

First Modern Canal in England 1757

- The Sankey Canal in near Liverpool, to transport coal
- Authorized by Act of Parliament
- Ownership, management, construction all in private hands

Rapid Expansion of Canal Network 1760-1810

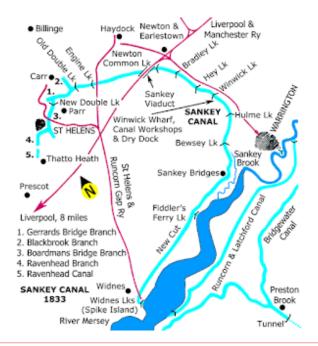
- Constructed by private joint stock companies
- Usually high returns and soaring share prices
- Landowners also interested: canals increased land prices

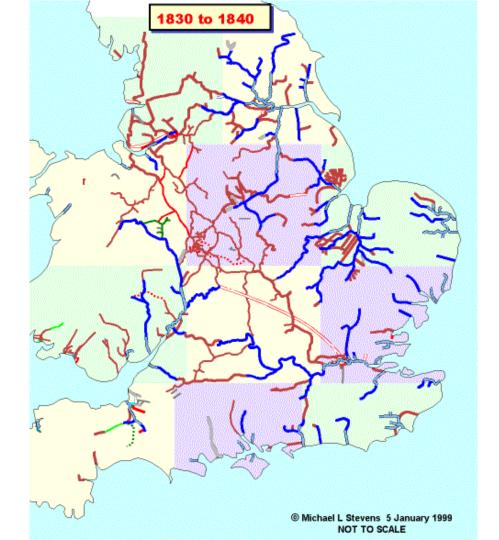
Canal Mania

- In the 1790s: speculation and soaring prices then collapse in 1793
- End of canal building by 1830s
- About 4,000 miles (7,600 kilometers) built
- Railroads became more efficient than new canals

SANKEY CANAL 1833







BRITISH RAILROAD BOOMS

Private Finance Behind the Railways

- Despite huge capital outlays
- First railroads financed locally hard to attract capital initially

Innovative Financial Forms

- Limited liability a limit to potential losses
- Preferred stock: dividend guaranteed, but no voting rights

Two Booms: 1825 and 1840s

- 1825: opening of first steam powered railroad. Six more railroads authorized, market value of companies doubled. Economic crisis of 1825 prevented takeoff
- 1840s saw another boom. Peel's Act 1844 restricted credit, railway shares declined 85% to 1850

TWO BOOMS: 1825 AND THE 1843-44

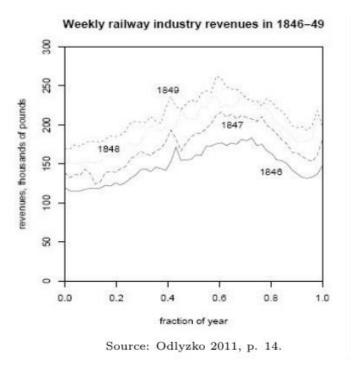
1825

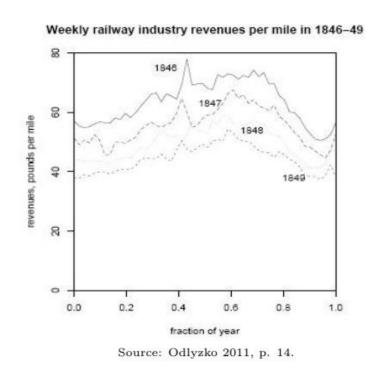
- Opening of first steam powered railroad
- Six more railroads authorized, market value of companies doubled
- Economic crisis of 1825 prevented takeoff

Boom of 1840s

- 1840s saw another boom
- Great expansion of railroads
- Peel's Act 1844 restricted credit
- Railway shares declined 85% to 1850
- Revenue per mile much lower after the boom overinvestment

RAILROAD REVENUES 1846-49





POSSIBLE EXPLANATIONS

Naïve Investors?

- Can simple naïvity or lack of experience explain booms?
- But most capital supplied by experienced investors
- Experience from canal-building carried over to railways

False Expectations?

- Obviously, everyone erred had false expectations
- Otherwise, there would be no boom and bust
- But why did everyone err at the same time?

Credit Expansion A Promising Candidate

• Banks issuing notes can increase the amount of capital apparently available



THE IMPORTANCE OF BRITISH BANKING

British Banking a Model for other Countries

- Peel's Act 1844
- The development of banking in GB therefore important

Three Important Episodes

- Bank Restriction, 1797-1819
- Country Banking, 1825
- Peel's Bank Act, 1844

The Era of Classic Business Cycles

- Links between the banking system and malinvestment and crisis
- Great debates on these issues at the time

BANK RESTRICTION

Expansion of the Money Supply in the 1790s

- Both by the BoE and country banks
- Money printing financed the war with France from 1793

Consequences

- Price inflation, gold outflow, balance-of-payment deficit
- Panic in 1797: run on the Bank of England
- Parliament suspended redemption renewed until 1821 every year
- Money creation fueled speculation, inflation
- Financed ongoing war effort



BANK RESTRICTION

End of Restriction

- Discussed from 1810 on
- Return to par value of the pound agreed 1816 for 1819
- Finally redemption resumed, pound sterling on gold again 1821

Results

- Contraction of paper issue
- General deflation of prices about 10 percent
- Business depression ensued
- Short-term unemployment

COUNTRY BANKING

Great Expansion of Country Banking

- During era of bank restriction
- Provided half the circulating medium (Presnell 1956, 160)
- Crisis of 1825 blamed on the country banks but BoE also expanded its issue greatly

Credit Expansion: Bank Notes and Deposits

- New money created by banks lent to businesses
- Made capital appear abundant, lowered interest rates
- But unsustainable boom: the capital did not exist

Crash of 1825

Many bankruptcies, country banks declined after 1825, outcompeted by BoE

THE GREAT BANKING DEBATE (SMITH 1990, CHAP. 7)

• Great debate over banking issues in the 1830s-40s

Currency School

- Desired an inflexible, stable money supply currency principle
- New banknotes could only be issued against deposit of gold in the BoE

Banking School

- The amount of banknotes in circulation cannot exceed the needs of trade
- Banking automatically adjusts the money supply to demand banking principle
- Real Bills Doctrine: when bankers lend to business against short-term bills representing real goods, the money supply simply reflects real economic activity
- A flexible money supply good, so long as it is "endogenous" to the commercial system

PEEL'S BANK ACT OF 1844

Bank Reform 1844

- BoE received monopoly on note issue
- Private bank notes gradually withdrawn
- Apart from £14 million of existing notes, BoE could henceforth only issue notes against deposited gold the currency principle

Apparent Victory of the Currency School

- But Peel's Act deficient it failed to regulate bank deposits
- British banks continued to expand credit in the form of deposits
- Boom-bust cycle continued in GB
- BoE requirement to redeem in specie regularly suspended in crises

SIR ROBERT PEEL

- Author of the Bank Act
- (And other important reforms in the period)



BANK OF ENGLAND AS CENTRAL BANK

• "A monarchy in any trade is a sign of some anomalous advantage, and of some intervention from without" - Bagehot

The Bank of England as Lender of Last Resort

- In a crisis, it stepped in to save banks
- First time in 1857 and 1866 (including suspension of Peel's Act)
- Theorized by Walter Bagehot in Lombard Street 1873 as the role of the central bank

Central Bank Orthodoxy

- In crisis, the BoE should lend freely at a high, above market rate, against good collateral
- Quickly became central bank orthodoxy (Fetter 1965)
- But not without opposition: e.g., Thomson Hankey, former Governor of the Bank



THOMSON HANKEY ON BANKING, 1873

Ready money is a most valuable thing, and cannot from its very essence bear interest; every one is therefore constantly endeavouring to make it profitable and at the same time to retain its use as ready money, which is simply impossible. Turn it into whatever shape you please, it can never be made into more real capital than is due to its own intrinsic value, and it is the constant attempt to perform this miracle which leads to all sorts of confusion with respect to credit.

(…)

The Bank of England has been long expected to assist in performing this miracle; and it is the attempt to force the Bank to do so which has led to the greater number of the difficulties which have occurred on every occasion of monetary panics during the last twenty years.



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VIELEN DANK!

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