

Contributions to Management Science

Andrea S. Funk

Crowdfunding in China

A New Institutional Economics Approach



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Andrea S. Funk
University of Würzburg
Würzburg, Germany

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*To my dad who has enabled me to realise all
my dreams.*

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List of Abbreviations

3C	Computer, communications, and consumer electronics
A	Agent
ABC	Agricultural Bank of China
ADBC	Agricultural Development Bank of China
AMC	Asset management company
AON	All-or-nothing crowdfunding
app	Application
ATM	Automatic teller machine
B2B	Business-to-business
B2C	Business-to-consumer
BA	Business angel
BaFin	Bundesanstalt für Finanzdienstleistungsaufsicht
BAT	Baidu Alibaba Tencent
bn	Billion
BOC	Bank of China
BOCOM	Bank of Communications
C2C	Consumer-to-consumer
CBRC	China Banking Regulatory Commission
CCP	Chinese Communist Party
CCTV	China Central Television
CDB	China Development Bank
CEB	China Exim Bank
CF	Crowdfunding
CFP	Crowdfunding platform
CIC	China Investment Corporation
CMB	China Minsheng Bank
CN	China
CNNIC	China Internet Network Information Center
COD	Cash on delivery
CSRC	China Securities Regulatory Commission
e-	Electronic-based

EC	Equity crowdfunding
ECN	European Crowdfunding Network
e.g.	For example
etc.	Et cetera
excl.	Excluding
FinTech	Financial Technology
GCN	German Crowdfunding Network
GDP	Gross domestic product
GMV	Gross merchandise value
Huijin	Central Huijin Investment Company
ibid.	Ibidem
ICBC	Industrial and Commercial Bank of China
ICT	Information and communication technologies
ID	Identification
i.e.	That is
incl.	Including
IP	Intellectual property
IPO	Initial public offering
IT	Information technology
JOBS Act	Jumpstart Our Business Startups Act
KIA	Keep-It-All crowdfunding
LSE	Life-style entrepreneur
m-	Mobile-based
MAU	Monthly active user
MOF	Ministry of Finance
N/A	Not available
n.a.	No author provided
NCFG	Net Credit Finance Group
n.d.	No date provided
NFC	Near-Field Communication
NIE	New Institutional Economics
n.p.	No page provided
NPL	Non-performing loan
n.y.	No year provided
O2O	Online-to-offline
OCF	Original crowdfunding
P	Principal
P2B	Peer-to-business lending
P2P	Peer-to-peer lending
PBOC	People's Bank of China
PC	Personal computer
PCBC	People's Construction Bank of China
PDA	Personal digital assistant
PE	Private equity
PI	Project initiator

PKU	Peking University
PME	Profit-maximising entrepreneur
POE	Privately owned enterprise
PR	Public relations
PRC	People's Republic of China
QR	Quick response
RCC	Rural credit cooperative
ROSCA	Rotating Savings and Credit Association
SAC	Securities Association of China
SAFE	State Administration of Foreign Exchange
SCMP	South China Morning Post
SE	Serial entrepreneur
SEC	Securities and Exchange Commission
SME	Small and medium-sized enterprise
SMS	Short message service
SOB	State-owned bank
SOE	State-owned enterprise
TA	Transactions
TCE	Transaction cost economics
TIF	Traditional informal finance
TK	Transaction costs
tn	Trillion
UCF	Unified Compliance Framework
UK	United Kingdom
US	United States
USA	United States of America
VC	Venture capitalist
VPN	Virtual private network
vs.	Versus
WCC	World Crowdfunding Conference
WTO	World Trade Organization

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Chapter 1

The Matter of Crowdfunding in China



1.1 Motivation

Crowdfunding (CF) is becoming an increasingly important financial tool. In 2010, the global crowdfunding market accounted for only USD 880 million.¹ According to the recent Crowdfunding Industry Report, the crowdfunding volume in 2014 totalled USD 16.2 billion.² By 2016, crowdfunding is expected to surpass the market value of classical venture capital funding.³ Whilst some years ago, crowdfunding was predominantly applied by charities and actors of the creative industry, it has turned into an alternative financial tool for start-ups, entrepreneurs and Small and medium-sized enterprises (SMEs) across all sectors. Crowdfunding's global growth rate is mainly driven by the Asian crowdfunding market, which grew by 320% between 2013 and 2014, putting it slightly ahead of Europe as the second-biggest crowdfunding region, right after North America. Within Asia, the People's Republic of China (PRC) has been identified as the key market for CF's growth.⁴ Despite its growing popularity, research on crowdfunding, particularly on crowdfunding in China, is still scarce. This work aims at closing this research gap.

According to a recent World Bank report, China holds the greatest potential for crowdfunding's future. By 2025, the PRC could account for more than half of the global crowdfunding volume potentially totalling up to USD 50 billion.⁵ Even though crowdfunding was non-existent in China before 2011, its exponential growth rates reflect this potential. In 2014, Chinese citizens had contributed a total of USD 436 million (RMB 2.82 billion) to domestic crowdfunding projects; this figure

¹Emmerson (2015).

²Massolution (2015, p. 13).

³Emmerson (2015).

⁴Massolution (2015, p. 52).

⁵infoDev (2013, p. 10).

rose to USD 864 million (RMB 5.585 billion) in the first half of 2015. Particularly since China's government has passed draft regulations on equity crowdfunding in December 2014, the number of Chinese Crowdfunding platforms (CFPs) has been increasing, from 142 in 2014 to 235⁶ by the end of June 2015.⁷ As the PRC's crowdfunding industry is still quite young, and its growth rates are expected to rise even further, China could indeed become the largest crowdfunding market in the world in the near future.

The approximated figures in the World Bank report seem plausible, yet, the results are based on questionable parameters. Some of the key variables are not applicable to China and thus probably have biased the findings.⁸ In addition, the report contains some errors and contradictions.⁹ On the other hand, China's crowdfunding features some characteristics that have been neglected by the World Bank and which eventually could justify the estimated growth rates.

In my opinion the World Bank's findings could even fall short of the actual future development as China holds a unique environment for crowdfunding. Certain external factors favour the development of crowdfunding and have provided China a beneficial initial position which eventually led to those exponential growth rates. These features are rooted in China's history and therefore cannot be assimilated by other countries. In particular, I expect a growing potential for crowdfunding in China due to the following three reasons:

First of all, crowdfunding's rise in China can be traced back to its established informal finance sector. As China's formal finance sector is underdeveloped and cannot serve the entire market, Chinese are used to employing alternative sources of finance. Therefore, the Chinese population is relatively open to new forms of finance. In the end, the existing informal finance structures could contribute to a faster and more comprehensive acceptance of crowdfunding in China.

Secondly, crowdfunding in China is promoted by its agile internet sector, driven by e-commerce giants and social media providers. Next to their core businesses, these companies also provide online payment systems and financial services like crowdfunding. As a consequence, banks and other traditional financial institutions have to face additional competition.

Thirdly, the Chinese government welcomes and promotes this development. Whilst the PRC is struggling to alter its traditional formal financial sector, internet finance per se is considered to be a motor for financial reform. China's premier minister, Li Keqiang, in particular set the development of internet finance as a

⁶This number is likely to include only donation-, rewards-, and equity-based CFPs as China is said to have about 1000 debt-based P2P CFPs. See Ren (2015).

⁷Research and Markets (2015, n.p.).

⁸E.g. the number of a country's Facebook users is utilised as a proxy for social media engagement. However, Facebook is officially banned from China. Yet, the PRC has a very high social media engagement; although the majority of Chinese use domestic social media.

⁹Funk (2016).

policy priority in 2014.¹⁰ In China's *Financial Stability Report* of 2014, financial innovation is stressed and a special chapter has been dedicated to the *Development and Oversight of Internet Finance*. Therein internet finance was officially defined for the first time as comprising of the following six categories: *Internet payment, P2P online lending, non-P2P online micro loans, internet-based mutual fund sales, innovative online platforms of financial institutions, and crowdfunding*.¹¹ The report also states that “[i]nternet finance and traditional finance compete and cooperate with each other”.¹² Internet finance in particular challenges the hegemony of state-owned financial corporates, which are forced to innovate in order to become more competitive. For example, China's big state-owned banks nowadays also offer mobile banking to improve customer experience.¹³ Ultimately, crowdfunding and other forms of internet finance could accelerate the reformation of China's formal financial sector.

Not least, crowdfunding and other sources of internet finance can bridge the gap between formal and informal finance in China and probably therefore are promoted by the Chinese government. As Chinese formal banks only serve a certain clientele, a substantial part of the Chinese society relies on informal financial sources. However, informal finance is comparably expensive and rather opaque. The internet, on the other hand, provides transparency and is able to reduce transaction costs. Consequently, financial services become affordable to a broader customer base. According to the People's Bank of China (PBOC), the invention of “internet finance has promoted inclusive finance and filled in the gap in traditional financial services”.¹⁴ This statement hints at the role that tools like crowdfunding are intended to fill: Aiding the underserved market participants, replacing less transparent forms of traditional informal finance (TIF) and thereby integrating both alternative forms of finance and marginal market actors into the formal finance sector.

In the end, the triad of an underdeveloped formal financial sector, an established informal finance sector, and a dynamic internet finance sector provides a unique setting for crowdfunding in China.

This work aims to investigate crowdfunding's role in China and particularly its potential to change the Chinese informal finance sector. In order to evaluate crowdfunding's function within China, I discuss the features that crowdfunding provides for all respective stakeholders who are affected by this new form of finance. First, crowdfunding is a financial tool for individual founders, start-ups, ventures and entrepreneurs, which I subsume under the term *project initiators (PIs)*. Secondly, crowdfunding is also an alternative investment tool for savers and other capital providers. Whilst investments in TIF commonly are face-to-face, offline, and geographically restricted, crowdfunding eliminates physical investment boundaries

¹⁰Xie et al. (2016, p. i).

¹¹People's Bank of China (2014, pp. 173–176).

¹²People's Bank of China (2014, p. 172).

¹³Xie et al. (2016, p. 30).

¹⁴People's Bank of China (2014, p. 188).

and thereby provides an attractive alternative for formal and informal creditors. All potential depositors or crowdfunding investors respectively are subsumed under *the crowd*, which I use as a synonym for *crowdfunders*. Thirdly, the Chinese *crowdfunding platforms* (CFPs), their influence and motivation for providing crowdfunding services are also analysed in order to identify their role and crowdfunding's overall function in China. Last but not least, the Chinese government is another important stakeholder for crowdfunding's development. By contrasting its attitude towards TIF and crowdfunding and analysing where these attitudes stem from, I appraise where crowdfunding's future will lead to. In the end, by comparing TIF and crowdfunding in China, and their role for their respective stakeholders—PIs, crowdfunders, CFPs, and the Chinese government—I can estimate to what extent crowdfunding could become a game changer for informal finance in China.

From the context outlined above, the following research questions are derived:

- Which role does crowdfunding take in the spectrum of China's financial sector?
- Which features does crowdfunding in China hold in comparison to the Original crowdfunding (OCF) (i.e. Western crowdfunding) *concept* and in the context of China's internet industry, particularly its social media and e-commerce sector?
- Which function does crowdfunding fulfil in China in contrast to Traditional informal finance?

Crowdfunding in China started out as a form of informal finance. Whilst (equity) crowdfunding belonged to the grey or rather informal area of finance, it was officially included in the formal financial sector with the introduction of draft regulations in December 2014. These draft regulations particularly serve a certain form of crowdfunding, which I denominate as *e-commerce crowdfunding*. Crowdfunding in China is highly integrated into e-commerce and social media, and thereby becomes more seizable for Chinese authorities. With the support of established e-commerce corporates and advanced social media providers, financial transactions can be more easily monitored, which amongst others is one reason for the authorisation of crowdfunding by the government. As *e-commerce crowdfunding* is not just the dominant form of crowdfunding in China, but at the same time quite unique in the world, it is the focus of this thesis. Yet, other forms of crowdfunding in China are also elaborated.

Prior to identifying crowdfunding's role in China and evaluating whether it could indeed replace traditional forms of informal finance, the general role of financial institutions is depicted. Furthermore, parameters which start-ups and entrepreneurs base their financial decisions on are illustrated. Finally, the underlying reasons, why Chinese private enterprises utilise informal finance are analysed. In particular, the preceding questions of this research are:

- What is the function of financial mediators and of formal versus informal institutions?
- Which factors do entrepreneurs base their financial decisions on?
- Why do Chinese entrepreneurs prefer informal finance?
- Why could they choose crowdfunding in the future?

1.2 Theory

In order to approach the above mentioned research questions, a theoretical framework is used to locate crowdfunding in China within the range of formal and informal finance. Specifically, I intend to understand how and why institutions evolve, why they change over time and what their underlying function is, both in general (for all kinds of financial institutions worldwide) and for Chinese financiers in particular. This research is therefore based on findings of New Institutional Economics (NIE). In contrast to neoclassical economics, NIE assume imperfect economic actors with bounded rationality and ethics. The focus of interest in NIE are institutions, which are “expectations that may be socially disciplined and which refer to behaviour patterns of one or several individuals”.¹⁵ Scholars of NIE analyse interactions between entities, organisations, companies, and individuals; they see institutions as instruments compensating for the bounded rationality of human beings. Moreover, they evaluate the impacts of institutions on human behaviour.¹⁶

Institutions provide the structure for exchange that (together with the technology employed) determines the cost of transacting and the cost of transformation. How well institutions solve the problems of coordination and production is determined by the motivation of the players (their utility function), the complexity of the environment, and the ability of the players to decipher and order the environment (measurement and enforcement¹⁷).¹⁸

Economic actors typically need to balance risks and transaction costs. The former can be reduced by spending resources *ex ante* and *ex post* of a transaction in order to decrease information asymmetries. However, such measures can be very costly and can reduce the attractiveness of a transaction. Yet, alternatively, they have to face higher risks. Institutions create stability and reduce overall uncertainty by providing a framework to our daily life.¹⁹ With the instalment of institutions, transaction costs and therefore risks can be diminished. In this thesis, the NIE perspective is used to evaluate the pros and cons of crowdfunding for its respective Chinese stakeholders and eventually explain crowdfunding’s rise in China.

As crowdfunding is progressively accepted by Chinese market players, i.e. PIs, crowdfunders, CFPs, and the Chinese government, I assume that this financial instrument is capable of reducing uncertainties and providing the actors with some benefits. Yet, in order to make a profound judgement, the underlying motivations of the respective actors need to be analysed as well as the environment in which crowdfunding is embedded in China, the transaction costs which each player needs to face, and also the capabilities each stakeholder has, which enable them to deal

¹⁵Own translation from Picot et al. (2002, p. 57): “sozial sanktionierbare Erwartungen, die sich auf die Handlungs- und Verhaltensweisen eines oder mehrerer Individuen beziehen”.

¹⁶Picot et al. (2002, pp. 43–57).

¹⁷According to North (1990), measurement (i.e. information research) and enforcement (i.e. monitoring) are those actions which afford transaction costs.

¹⁸North (1990, p. 34).

¹⁹North (1990, p. 3).

with the complexities of the environment. This is because a single institution unfolds within its institutional context, but never as an isolated entity.²⁰ Even though North (1990) states that institutions provide “a stable (but not necessarily [an] efficient) structure”²¹ for transactions, I argue that institutions eventually evolve to those specifications which include the least transaction costs; and this in turn can be equalised with highest efficiency. In this context, Aoki (2007) claims that institutional change derives from situations of crises that lead to an equilibrium shift. These situations can be evoked through “changes in the activated sets of individual choices due to the accumulation and development of skills, learning, innovation-induced new action possibilities [...] [or through] changes in technological and environmental conditions that result in different physical consequences for the same action choices [...], [or through] new laws or fiats which are enacted as consequences of the game in the political domains”.²² In fact, with the advent of crowdfunding in China, a PI’s choice of finance has been expanded, and with the publication of draft regulations on equity crowdfunding the entire situation further has been altered. In the end, crowdfunding and its features could evoke some institutional change in China.

This work builds upon several strands of **NIE**, foremost on transaction cost and principal agent theory. Moreover, I apply the concept of transaction cost economics to classify crowdfunding within China’s financial spectrum. Besides, this research further relies on findings of behavioural economics, informal finance and specific crowdfunding literature. Insights from literature on entrepreneurs’ choice of finance help me to locate crowdfunding within the broad range of financial alternatives. Additionally, by analysing literature on informal finance, particularly on informal finance in China, crowdfunding and its features are contrasted to **TIF** in China. Furthermore, earlier findings on crowdfunding²³ are used to assess the outcomes of this research and make statements on crowdfunding in China. Based on the theoretical framework of **NIE**, behavioural finance, informal finance, and crowdfunding literature, I try to draw a comprehensive picture of crowdfunding in China.

1.3 Research Design and Methodology

As research on crowdfunding, particularly on crowdfunding in China, is still scarce, this work uses a qualitative approach, which aims to provide insight into the scope of crowdfunding in China and its relation to **TIF**. In addition to an evaluation of existing literature on crowdfunding, including scientific but also non-academic

²⁰Picot et al. (2002, p. 12).

²¹North (1990, p. 6).

²²Aoki (2007, p. 19 ff.).

²³These are predominantly findings on crowdfunding in the West.

sources like blogs, periodicals and internet websites, this research mainly relies on expert interviews and participatory observation. The original research design also incorporated a quantitative analysis based on a survey among PIs and crowdfunders; however, the achieved sample size of this survey was too small and therefore the results could only be analysed in qualitative terms. Still, in the end, the data collected from various sources provide a first detailed overview of the multifaceted picture of crowdfunding in China.

The literature analysis was based on scientific and non-scientific sources in English, Chinese and German. Western sources were predominantly obtained from online databases and libraries as well as from conferences like e.g. *the Crowddialog*.²⁴ Chinese sources, on the other hand, were obtained from the database *China academic journals* through *CrossAsia*,²⁵ collected from book stores on-sight in China or provided from Chinese research institutes. As scientific works, particularly Chinese sources, were hardly existing before 2014, this work also relies on blogs, newspaper articles, guide books and other non-academic sources.

This work further refers to data gathered during conferences in Europe and China, which I either attended personally or from which I received first hand reports from a peer. Personally, I participated in several fora like the *German Crowdfunding Network (GCN)* and the *European Crowdfunding Network (ECN)* in order to also grasp the developments of crowdfunding outside of China. As crowdfunding is becoming popular amongst practitioners, but also amongst scholars, the number of conferences on crowdfunding or related topics is simultaneously increasing. Institutions like the *GCN* and the *ECN* have been established in order to bundle common interests, to represent these in front of politicians and other interest groups, to distribute knowledge and to promote the development of crowdfunding. At the *2015 ECN Crowdfunding Convention* in Paris I exchanged views with several Chinese participants, who had earlier also attended the *2015 World Crowdfunding Conference (WCC)* in Guiyang, China. These second-hand information were very valuable because, as a non-Chinese participant, I would not have been entitled to follow the main sessions of the WCC, even if I had visited the conference in person. Thus, for this work and the overall understanding of the concept of crowdfunding in China, informal information derived from Chinese crowdfunding actors was crucial.

Furthermore, this work is based on a field study during which I conducted semi-structured expert interviews with Chinese PIs as well as with founders and employees of Chinese CFPs. In total, this field research comprised of 5 months in China, separated into three research sequences: In August/September 2013, I spent 7 weeks in Beijing and 1 week in Tibet; in April/May 2015, I interviewed probands in Beijing, Shanghai, Shenzhen, and Guangzhou; in September 2015, I made follow-up interviews in Beijing. Some follow-up conversations were also conducted

²⁴For more information on this conference see <http://www.crowddialog.de/>.

²⁵For more information see <http://crossasia.org/>.

via email, *WeChat*²⁶ and *Skype*. The first Chinese probands were contacted via *Sina Weibo*,²⁷ and thereafter most interview partners were introduced to me via previous contacts. Overall, the interviewees were quite cooperative and ready to share sensitive information in their mother-tongue. In the end, the success of the field research relied, amongst others, on my language skills as the majority of the semi-structured interviews were conducted in Chinese.

In order to get a better idea of the actual processes of a Chinese crowdfunding campaign, I additionally set up my own crowdfunding campaign on a Chinese CFP and emulated the role of a PI. Thereby, I learned the prerequisites for a setup of such a campaign, how a Chinese CFP can support PIs, and which dynamics eventually can lead to a successful crowdfunding in China. Although this experiment has been far from representative for a typical crowdfunding campaign in China as variables like the project category, the nationality of the PI, the pre-set target sum etc. were not controlled and thus may have led to several biases, it provided a good insight into the perspective of PIs in China and the daily work of a Chinese CFP. Eventually, by setting up my own crowdfunding campaign on a Chinese CFP, I gained a better idea of the crowdfunding dynamics in China.

The original research design also included a regression analysis based on the quantitative evaluation of a questionnaire, which should have given more insight into the motivational drivers of PIs and crowdfunders for applying crowdfunding. This questionnaire has been formulated on the basis of literature research. During my second research stay in China, I distributed a sample questionnaire to PIs, which thereafter was further amended, and which I intended to distribute on a larger scale via Chinese CFPs. However, as only few CFPs were willing to distribute the questionnaire via their channels and therefore the overall return rate stayed below expectations, the questionnaire was only evaluated on a qualitative basis. As a result, the research design of this dissertation is a mixture of theoretical and empirical analysis, relying on literature research, semi-structured expert interviews, participatory observation, and the qualitative evaluation of a questionnaire.

Crowdfunding and in particular crowdfunding in China is a very dynamic phenomenon which is still in a state of constant change. When I started my research, in 2013, there were hardly any publications on crowdfunding in China. By 2015, crowdfunding has become a topic of interest for PIs, crowdfunders, CFPs and also the Chinese government. Yet, at that time Chinese crowdfunding still relied on draft regulations, its stakeholders waited for their official implementation and further regulations were expected—not least due to the developments of Peer-to-peer lending (P2P) in China.

²⁶*WeChat*, or its Chinese equivalent *Weixin* [微信], is an Application (app) invented by the Chinese internet company *Tencent*. Amongst many other functions, this app includes an instant messenger. *WeChat* is further analysed in Sects. 4.4.2.2 and 5.3.4.

²⁷*Sina Weibo*, or its Chinese equivalent *Xinlang Weibo* [新浪微薄] is one of China's most popular micro blogs.

Whilst in 2013, P2P was non-existent in China and consequently not relevant at all, it has become a huge topic by 2015. By then, P2P platforms have mushroomed and absorbed large amounts of capital. At the same time, there have been already several cases of fraud of tremendous scale. Against this background, my research on crowdfunding in China, which intentionally excluded P2P from the very beginning, appears of less weight. However, these developments could not be foreseen in 2013. Moreover, the relevance ranking of crowdfunding and P2P in China is likely to shift again if P2P fails in the long run.

Ultimately, crowdfunding in China (like P2P) has been and is still under continuing change. As it is hard to hit a moving target, this thesis focusses on the evolution of crowdfunding in China from 2011 until the end of 2015. Yet, I have used some sources from beyond that time (e.g. with regard to e-commerce and social media in China) in order to stress my findings and make statements on the potential future development of crowdfunding in China.

1.4 Structure of This Work

Following this introduction, which has depicted the motivational background and the methodological approach of this work, Chap. 2 sets the theoretical foundation of this research. It presents a detailed discussion of NIE and the benefits of applying such an approach to crowdfunding. Furthermore, it illustrates the range of entrepreneurial finance and locates crowdfunding within the financial spectrum. Moreover, different types of entrepreneurs are highlighted. In addition, it discusses the role of classic financial intermediaries and introduces the theory of financialisation, which explains the changing role of formal financial intermediaries. The chapter further analyses informal financial intermediaries and introduces ROSCAs as a benchmark for formal and informal financial institutions. Finally, it refers to the FinTech industry and the evolution of internet finance, of which crowdfunding is a subcategory.

Chapter 3 deals with the *Original concept of crowdfunding (OCF)*, which has been established in the West. A definition of crowdfunding is provided, and its origins but also its modifications are elaborated. Furthermore, this chapter includes a literature review of both Western and Chinese sources. Subsequently, the phenomenon of crowdfunding is embedded within the theoretical context. Crowdfunding is analysed in terms of its principal-agent-relationships, the involved transactions and transaction costs. It is evaluated in terms of transaction cost economics and contrasted to other financial institutions, particularly to a commercial bank and a ROSCA. Ultimately, the choice for crowdfunding is de-constructed in terms of its underlying features.

The following Chap. 4 focusses on China's institutional, societal and economic environment for crowdfunding. In a first step it analyses China's financial sectors, i.e. the formal and informal one, and also its FinTech sector; it secondly illustrates China's internet industry. Therein, the role of the Chinese government is stressed.