Mapping spaces for making

During the last decades, the cities of Shanghai and Shenzhen have witnessed the emergence of new industrial spaces that have radically transformed the ways objects and technologies are produced.

More recently, stakeholders of a growing maker movement have gradually become interested by this gigantic production infrastructure. In parallel, government policies started promoting technological innovation as the new engine of national economic development and global outreach.

Mapping spaces for making is a research initiative that aims at documenting the encounters between these multiple dynamics around the production of objects and technologies in four cities in China: Beijing, Chengdu, Shanghai and Shenzhen. This project is led by the Institute for Area and Global Studies at the Ecole Polytechnique Fédérale de Lausanne (Switzerland). Since 2016, a team of anthropologists, economist and geographer has been conducting fieldwork on-site and reviewing industrial and innovation policies.

Record change
We conduct on-site investigations of urban spaces for making through an archaeology of existing objects, stories and medias.

Explore representations
We use different approaches to map, visualize and organize our observations and information. We use new representations to explore unseen dimensions and meanings.

Reality-check
We work with local stakeholders to (in)validate research hypotheses and analyses made from previous observations and existing literature.

Restitution
We share the outcomes of the analysis with the aim of generating new objects, discourses, narratives, discussions, feedbacks and improvements.
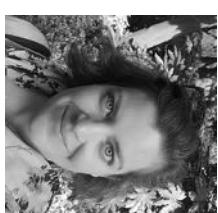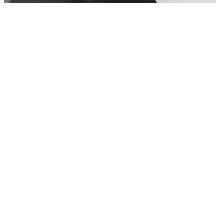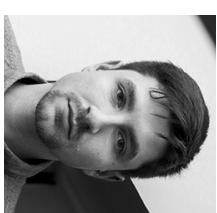
Collective fieldwork for each city

3-5 days experimental fieldwork

1 day event of public restitution

From February 28 to March 10 2018, a team of ethnographers, makers, media archaeologists, designers, architects, geographers and artists used their knowledge and tools to map out the stories of making in the cities of Shanghai and Shenzhen. The Shanghai leg took place from February 28 to March 2 with a public restitution on March 3. The Shenzhen leg took place from March 6 to 9 with a final event on March 10.

Each workshop ended with the production of a series of maps and documents that were presented during a public event.

The team comprises 4 members from EPFL, 1 member from HEAD Genève and 1 member from Polytechnic of Turin. We bring together several perspectives ranging from social sciences, economics, architecture and design for an interdisciplinary interpretation of local realities.

Clément Renaud
Monique Bolli
Florence Graezer Bideau
Marc Laperrouza
Anaïs Bloch
Emanuele Protti

A set of questions that frame our collective reflection on the topics of urban studies, design sociology, anthropology, politics and economics. In particular:

How to define the Chinese maker movement and its spaces?
- What types of makerspaces exist?
- How does the profile of these spaces reflect local urban ecosystems?

How to visualize political changes in the maker movement?
Through visualization and mapping, we seek to understand the role makerspaces play in the formation of a new transnational elite.
- How do these spaces lead to accumulation of cultural and social capital and knowledge in strategic areas?
- How are horizontal networks of makers articulated with vertical institutional forces such as corporations, markets and governments?

What are the economics of makerspaces?
- How are makerspaces relating to innovation policies at different government levels?
- How sustainable are the business models of makerspaces?

What are the similarities and differences between the Chinese and other national and transnational maker movements?
- What are the core values of these movements?
- What are the main projects?

- Who is involved?
- Which communities evolved with them?
- What kind of events are organized around this topic?
- What words are used in Mandarin Chinese to express the ideas of making?

Is the Chinese maker movement a model to export?
- What is the *imaginaire* of this ecosystem in China and around the world?
- What are the existing projects, exchanges and dialogues between different actors?
- To what extent can the Chinese makerspace ecosystems be exported?

How to document industrial temporary / disappearing / transforming places?
Through the analysis of the relation between fast changing realities and industrial cultures, we aim to investigate how to map the trajectories of cities' development.
- What is the role of new spaces of making in the transformation of the city?
- How to map the way fast changing realities affect the use of spaces?
- What are the relations between making and living in the Chinese context?
- What is the role of space in the construction of community groups based on the culture of making?

How to understand repair / refurb networks in China?

By looking at the different types of knowledge and interactions in repair and innovation sites (repair shops and makerspaces), we aim to observe the practices surrounding used electronic devices in China with a particular focus on the mobile phone repair and resale markets.

- What kind of repair practices exist and how do they develop in China?

- What are the links between spare parts and second-hand component markets in China and Europe?

- How do Chinese and Swiss mobile repair cultures compare?

- Are there any differences in the know-how between the repair shops and the makerspaces?

Media archaeology
collect "maker" traces
& objects in the vicinity

Project presentation & icebreakers

On-site exploration
visit of makerspaces,
interviews,
soundscapes, etc.

Architectural Studies
how cities change
in relation to the
economy,
industry and politics

Engage with previous studies

RESEARCH

Public restitution
share results and
contributions from
local and international,
junior and
seasoned
researchers

Daily group discussions

Network mapping
visualize relationships
and produce
structured
representations

Urban studies
map how space and
social relations interact

Document
record activities,
process traces

A great thank you for the support we got for the workshops:

swissnex China sponsored the catering of the two events organized in the framework of this fieldwork.

Xspace provided the space for the workshop and the restitution in Shanghai.

Shenzhen Center for Design provided the space for the workshop and the restitution in Shenzhen.

We would also like to thank:

Michelle Poon for presenting her new book in Shenzhen.

Our friends and the communities of innovation who warmly welcomed the team in Shanghai and Shenzhen.

Qu Hongyuan for her precious support.

Methodology
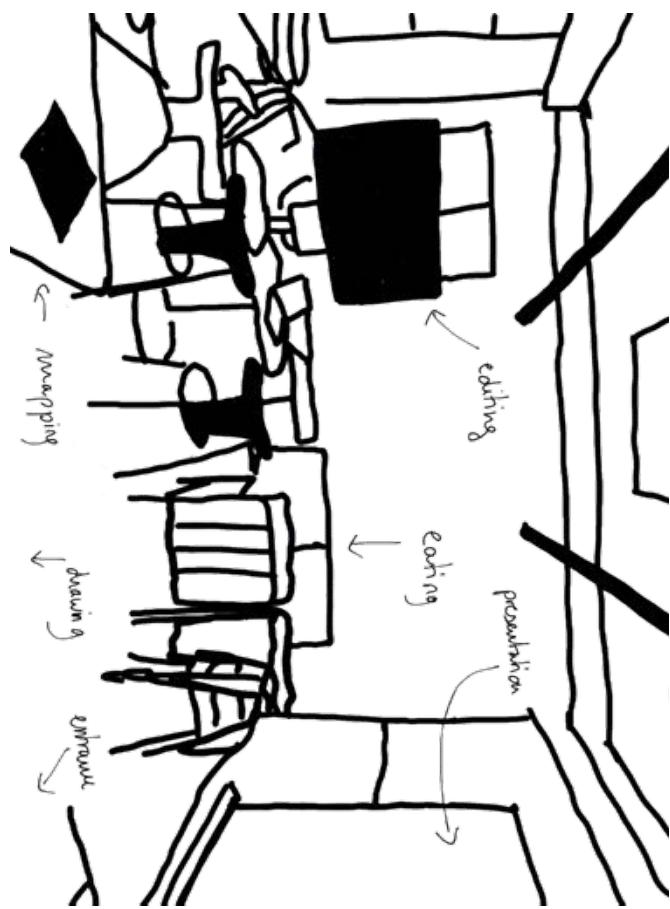
Fieldwork has been conducted in Shanghai, Shenzhen, Chengdu and Beijing since summer 2016. It has allowed us gain a deeper understanding of the specific realities of these urban spaces.
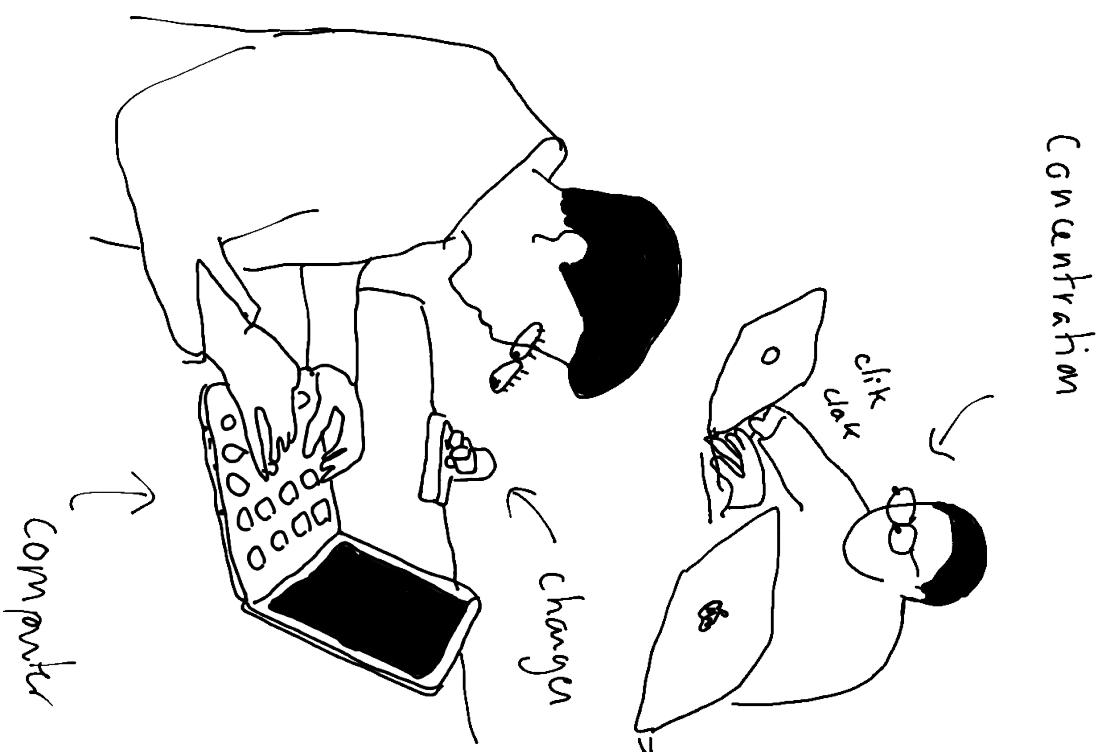
For the Shanghai and Shenzhen workshops, we have included a designer and an architect to broaden our approaches and enrich the observations. The whole process allowed us to fine-tune the analysis.
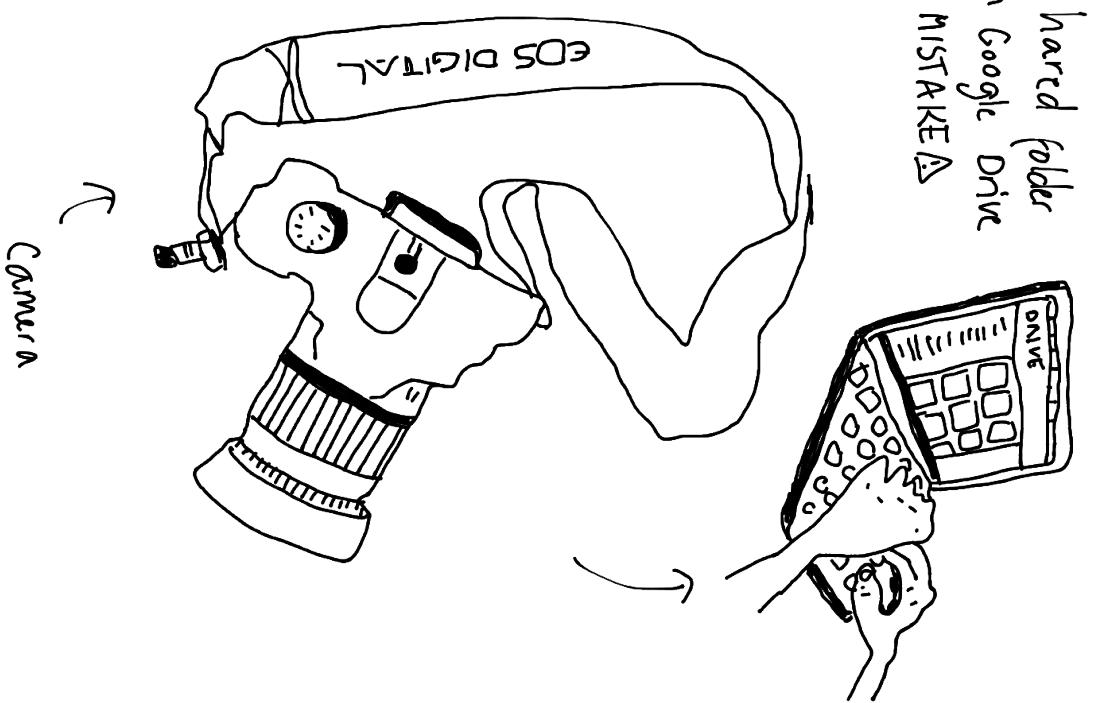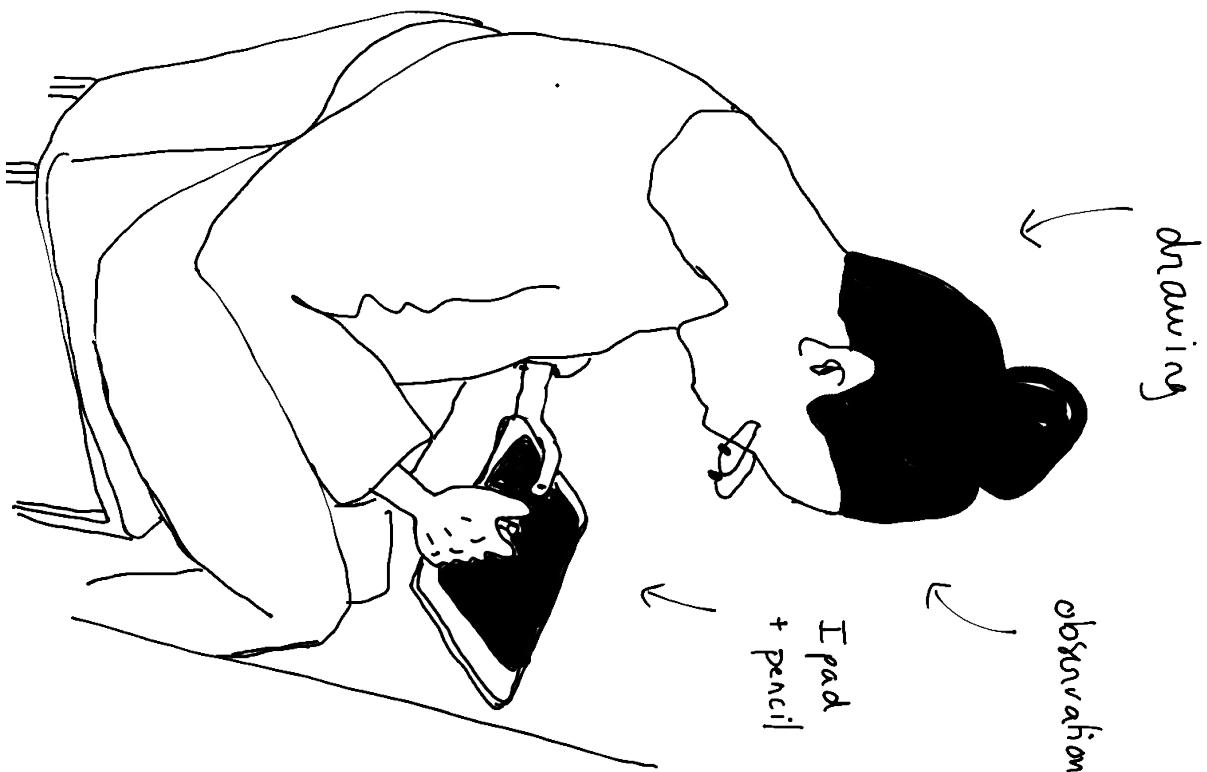
The tools we present and use in the following pages helped us to understand better the dynamics of makerspaces and their communities in China. The team produced pictures, images, interviews, discussions, drawings and maps.
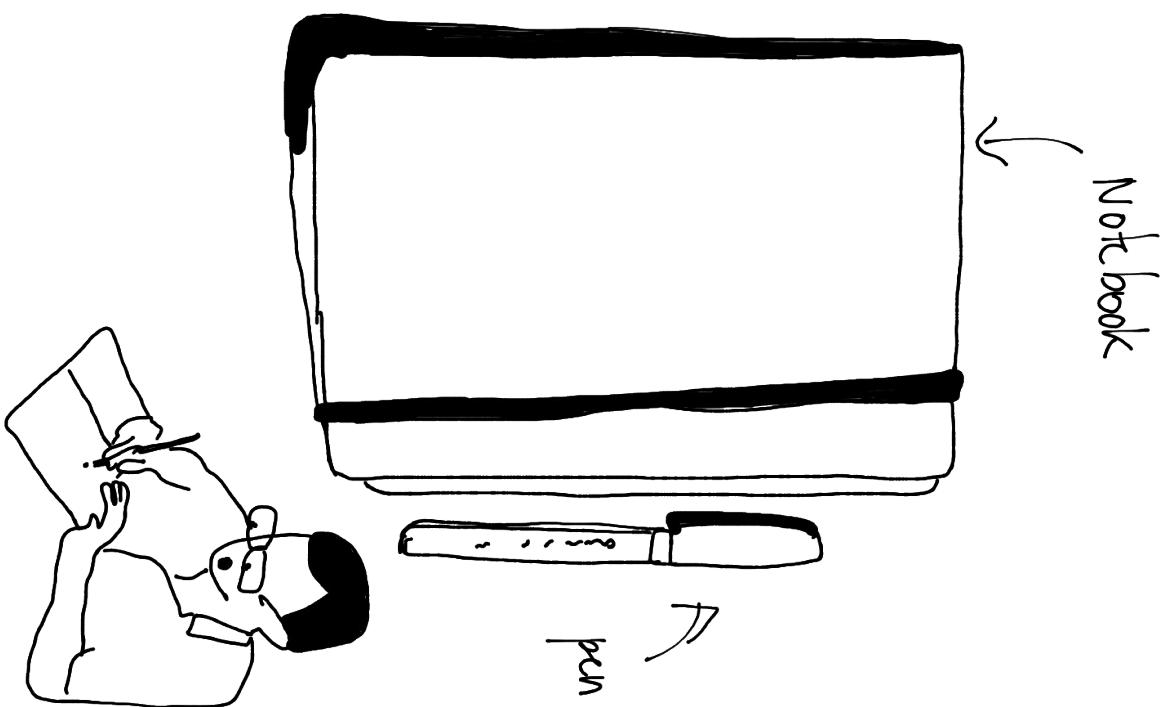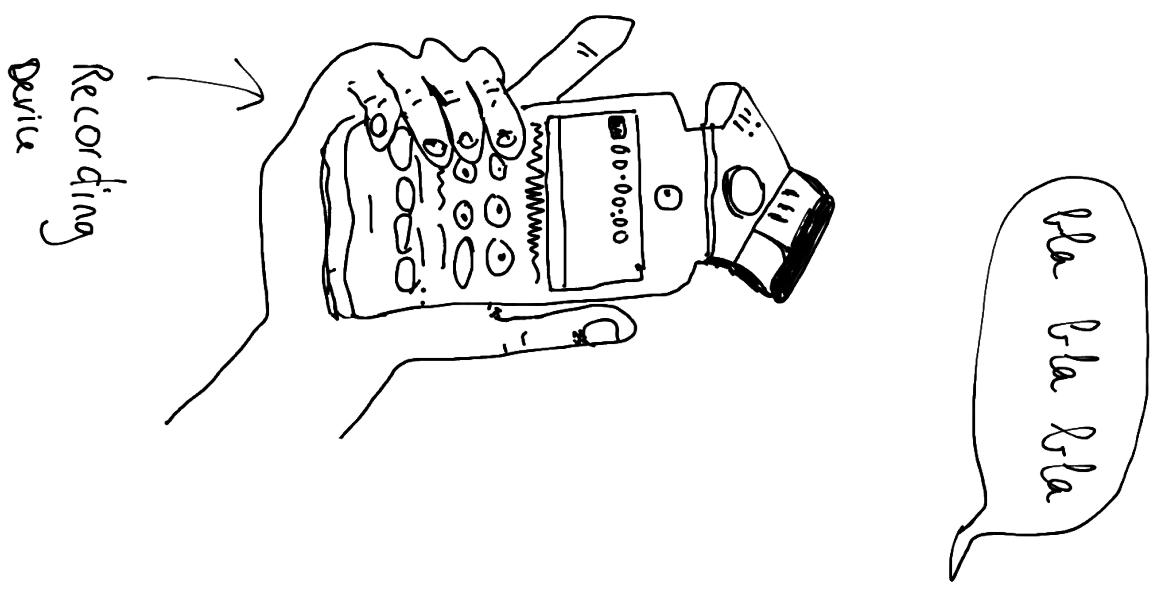
Participative workshops allowed us to present our findings, confront them and readapt our interpretations.
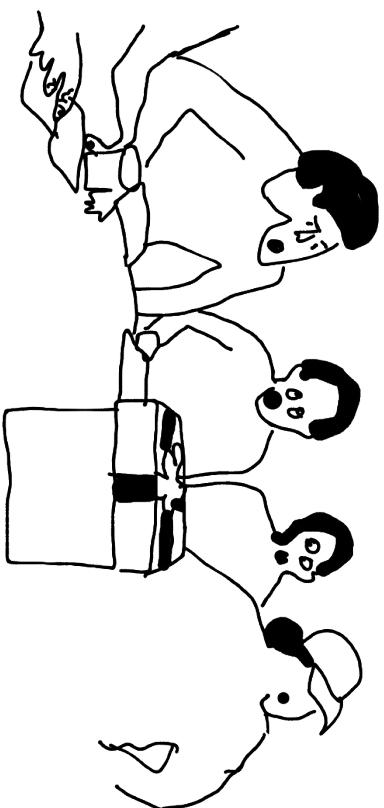
Several methods were used to foster dialogue and enlarge the network.
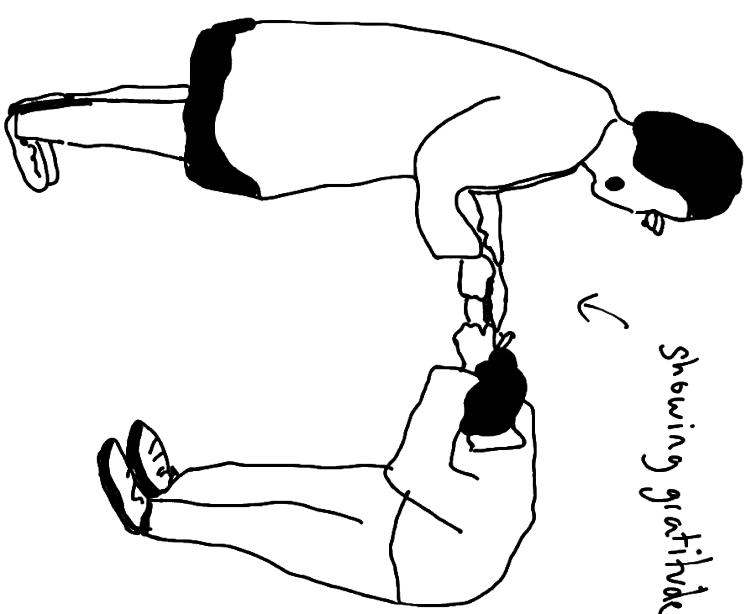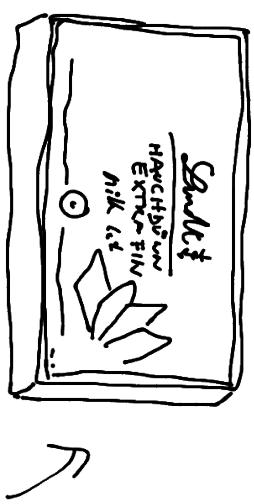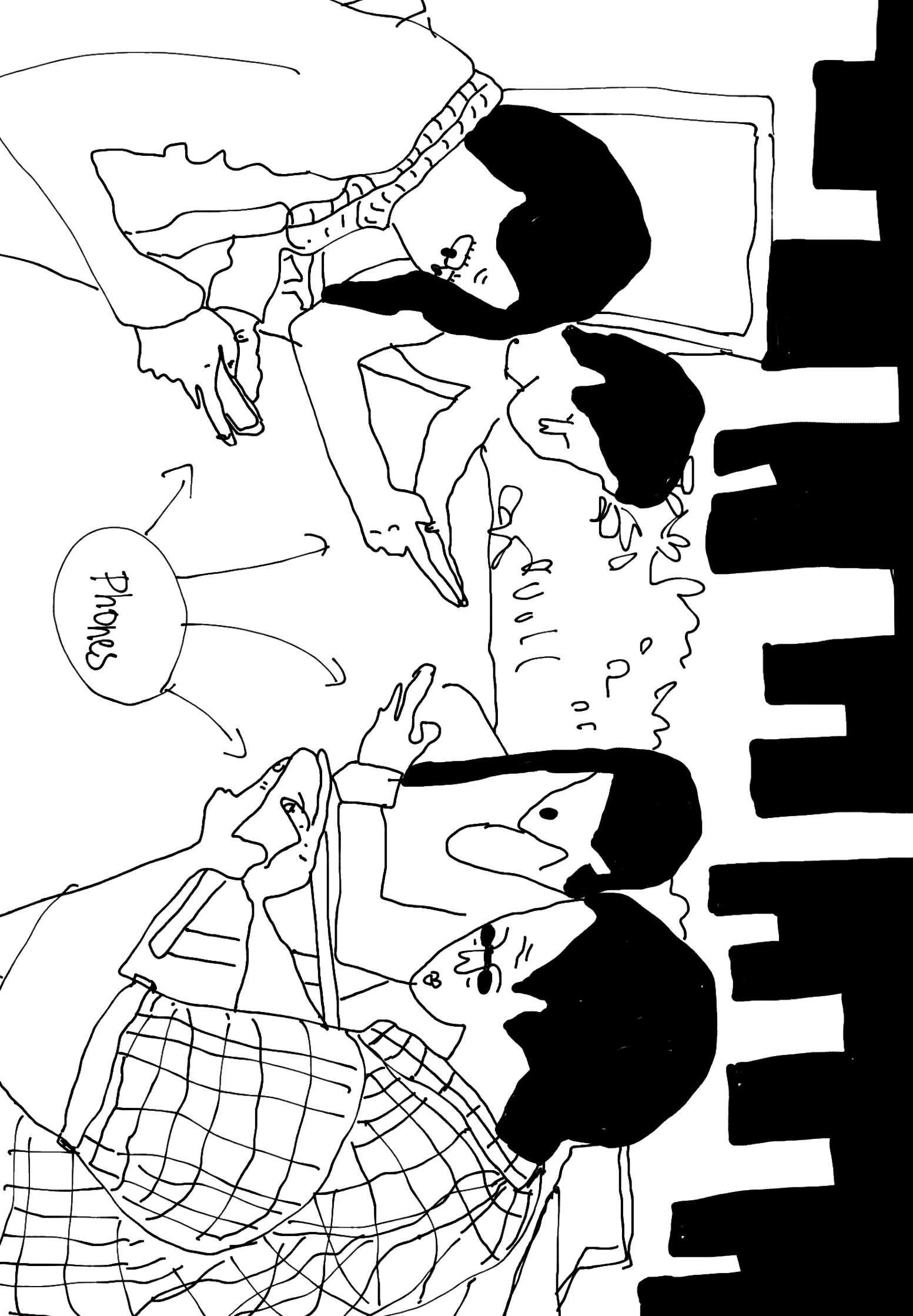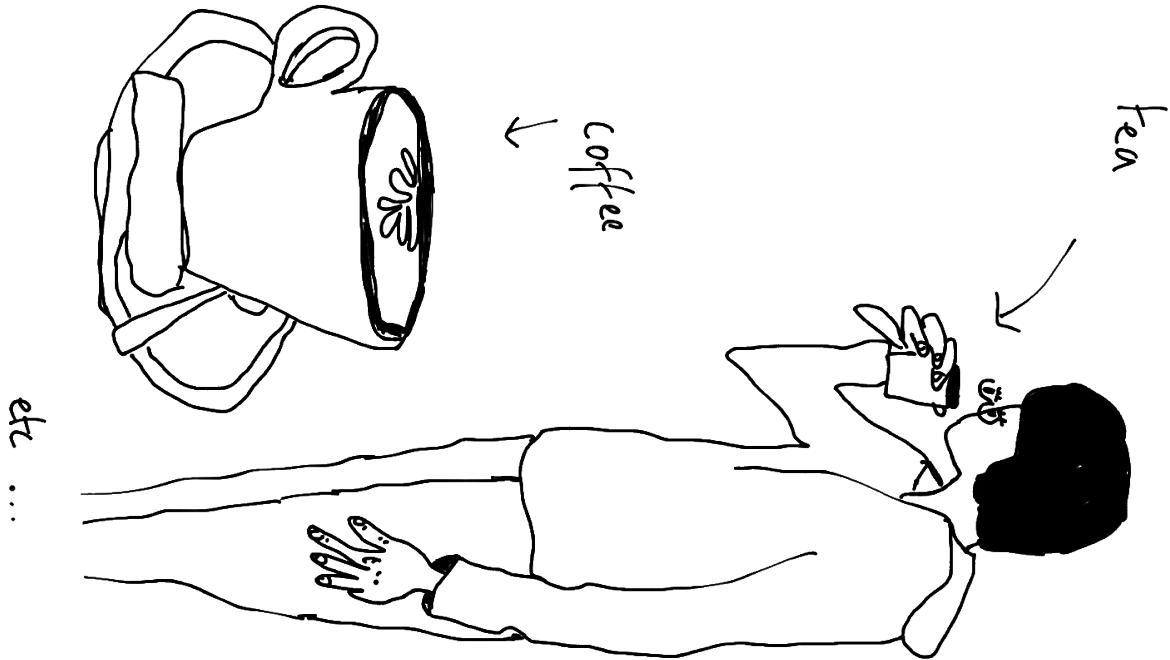
Electronics in Shenzhen

PC Keyboard

mobile phone

lamp

Girl cutting the elements by hand, using a knife

Concentration

click clak

change

Computer

drawing

observation

Ipad
+ pencil

Shared folder
on Google Drive
△ MISTAKE △

EOS DIGITAL

Camera

Recording
Device

Bla Bla Bla

Notebook

pen

Human centered
empathy

Chocolate

Showing gratitude

Phones

tea

coffee

etc ...

## Mapping Spaces for Making

Welcome to the Mapping Spaces for Making book :)

The present online book is an attempt to collect, map, visualize and publish observations and findings about spaces for making in China. It was started in March 2018 in the cities of Shanghai and Shenzhen.

Read & comment this online book
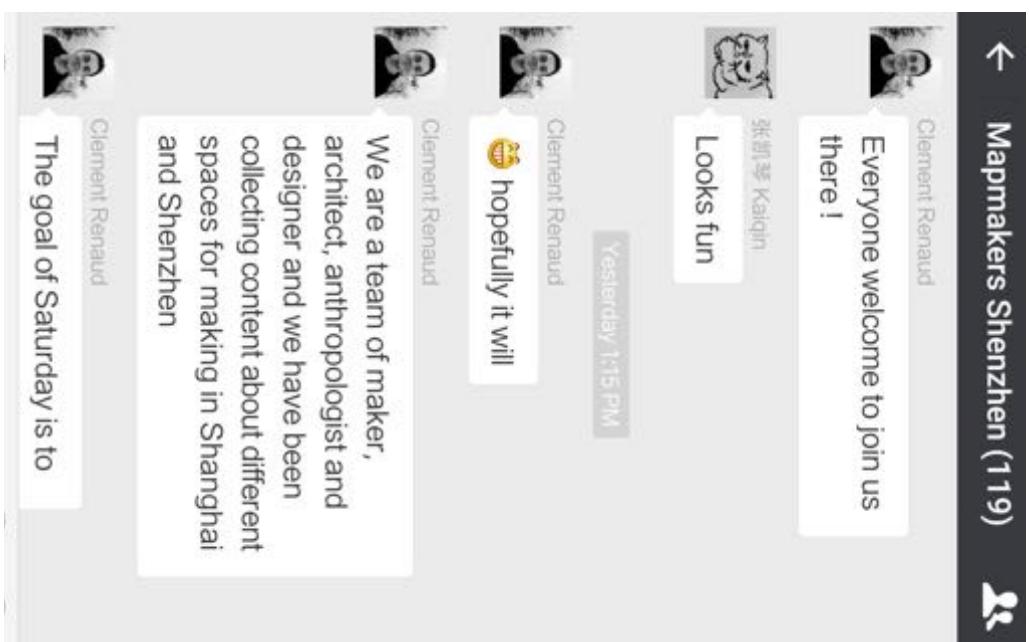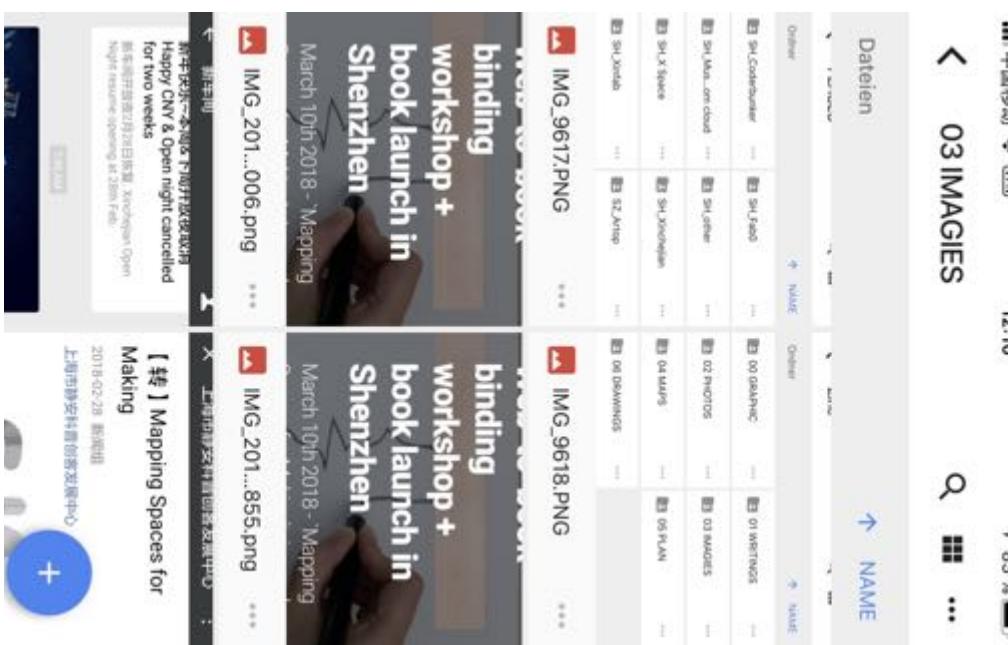
You can read everything online at https://one.mapmakers.space.

You can comment and discuss what is written here directly by clicking on a paragraph.
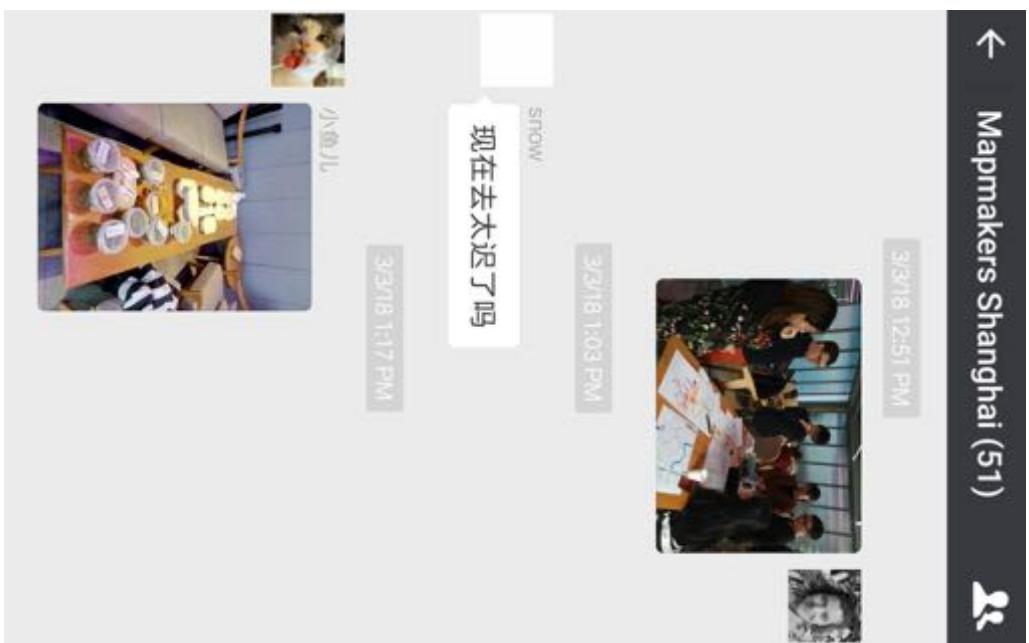
Write and contribute to this book

We are looking for original contributions regarding your own experience with making. Check the TODO list to find some inspiration about what you can contribute. You can also read more about writing in the How to Write section.

Join the conversation

You can join the conversation on WeChat by using the QR Code below. Feel free to invite your friends and whoever may be interested in the topic here.

.ıll 中国移动 🛜 (VPN)   12:10   ⚡ 83 % 🔋

❮ 03 IMAGIES   🔍 ⊞ ⋯

Dateien   → NAME

- 00 GRAPHIC ⋯
- 01 WRITINGS ⋯
- 02 PHOTOS ⋯
- 03 IMAGES ⋯
- 04 MAPS ⋯
- 05 PLAN ⋯
- 06 DRAWINGS ⋯

Online   → NAME

IMG_9617.PNG ⋯   IMG_9618.PNG ⋯

binding workshop + book launch in Shenzhen

March 10th 2018 - Mapping

IMG_201...006.png ⋯   IMG_201...855.png ⋯

binding workshop + book launch in Shenzhen

March 10th 2018 - Mapping

[转] Mapping Spaces for Making
2018-02-28 新视组
上海市静安区昌创意发展中心

Happy CNY & Open night cancelled for two weeks
影毛视野昌式2月2日无互 Xinchegun Open
Night resume opening at 28th Feb.

- SH_CodeChunter ⋯
- SH_Fab0 ⋯
- SH_Mus...om cloud ⋯
- SH_Letter ⋯
- SH-X Space ⋯
- SH_Xinchejan ⋯
- SH_Xinleb ⋯
- SZ_Artsap ⋯

←   Mapmakers Shenzhen (119)   👥

Clement Renaud
Everyone welcome to join us there !

张凯芩 Kaiqin
Looks fun

Yesterday 1:15 PM

Clement Renaud
🐵 hopefully it will

Clement Renaud
We are a team of maker, architect, anthropologist and designer and we have been collecting content about different spaces for making in Shanghai and Shenzhen

Clement Renaud
The goal of Saturday is to

Mapmakers Shanghai (51)

3/3/18 12:51 PM

snow

现在去太迟了吗

3/3/18 1:03 PM

小鱼儿

3/3/18 1:17 PM

Fieldwork

新车间
Xinchejian
Building 3, 28 YuYuan East Rd,
JingAn District

国家级众创空间
Mushroom cloud
B1, Aiku Space, Boyun Road No.111,
Pudong New District

新FAB
XinFab
静安区康定东路45弄5号102室
Shanghai, Kangding East Road, Lane 45,
Building 5, Room 102 – Jing' an District
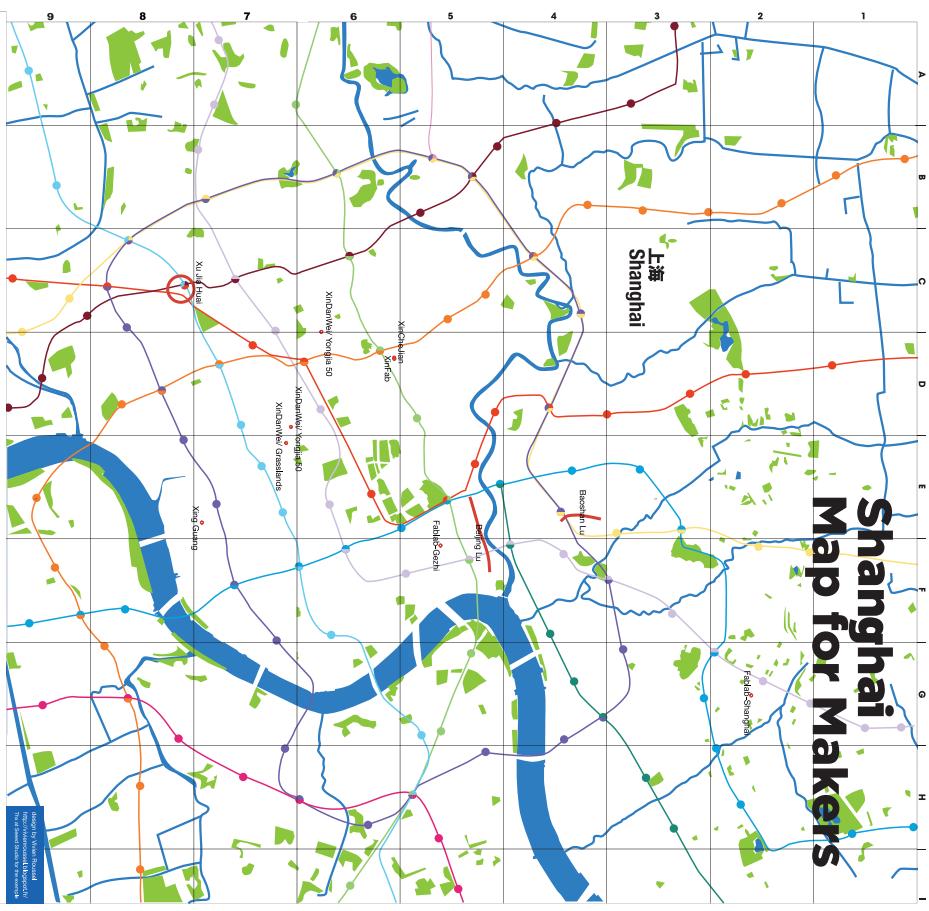
Coderbunker
徐汇区番禺路1199弄3号 (地下)
Shanghai, 1199 Panyu Road,
building 3, underground

数制"工坊 - 上海站
Fablab O - Shanghai
No.281 Fuxin Road, College of
Design and Innovation,
Tongji University

Xspace
江宁路77号3楼, 近奉贤路
Shanghai, 3/F, 77 Jiangning Lu,
near Fengxian Lu

Shanghai
Map for Makers

上海
Shanghai

Shopping

Qiujiang Lu Electronics Market,
Baoshan Lu / 虹口区虬江路, 近宝山路
Markets on the street, high-tech, electronics...
Metro 3/4 Baoshan Road

Beijing Dong Lu/ 北京东路
Market on the street, electronics components, mechanical equipments, etc...
Metro 2/10 East Nanjing Road

Xing Guang Photographic Equipment City,
300 Luban Lu near Xietu Lu / 市卢湾区鲁班路300号
Building on 4 floors on camera for pictures and video.
Metro 4 Luban Road

Xu Jia Huai,
1100 Zhaojiabang Lu/ 市肇嘉浜路徐家汇中心
Big place with big stores, and shops on computers, mobiles phones, glasses, etc.
Metro 2/9/11 Xujiahui

Maker Hubs

Fablab–Shanghai,
281 Fuxin Lu/ 富新路281号
College of Design and Innovation, Tongji University,
86+186-2104-4185, fablab9126.com
Metro 2/10 Tongji University

Fablab-Gezhi
66 Guangxi North Lu/ 66 广西北路
Gezhi High School
Metro 2/8 People Square

XinChejian / 新车间
28 YuYuan Lu, Bldg 3, Floor 1/ 愚园第28号
Building on 1 floor on camera for...
http://twitter.com/xinchejian
info@xinchejian.com
xinchejian@googlegroups.com
Metro 2/7 Jing'An Temple

XinDanWei/ Yongjia 50
Yongjia Lu 50/ 徐汇区永嘉路50号
+86 (021) 3428 0781
xindanwei@gmail.com
Metro 2/10 South Shanxi Road
Metro 0 Dapuciao

XinDanWei / Grasslands
347 ShaoXing Lu/ 绍兴路347号
+86 (021) 3428 0781
xindanwei@gmail.com
Metro 2/10 South Shanxi Road

XinFab
29 YuYuan Lu, Bldg 3, Floor 1/ 愚园第29号
Fabshon, Fablab
+86 180 162 514 48
kurp@xinfab.com

华强北
Huaqiangbei

深圳开放创新实验室
SZOIL
福田区紫荆道，B4, 531-532
Room 531-532, Building B4, Funian Square,
Shihua Road, Sino-Finnish Design Park,
Futian Bonded Zone

x.factory
万科云设计公社 深圳市南山区，B608
B608, Design Commune, Vanke Cloud City,
Dashi 2nd Road, Nanshan District
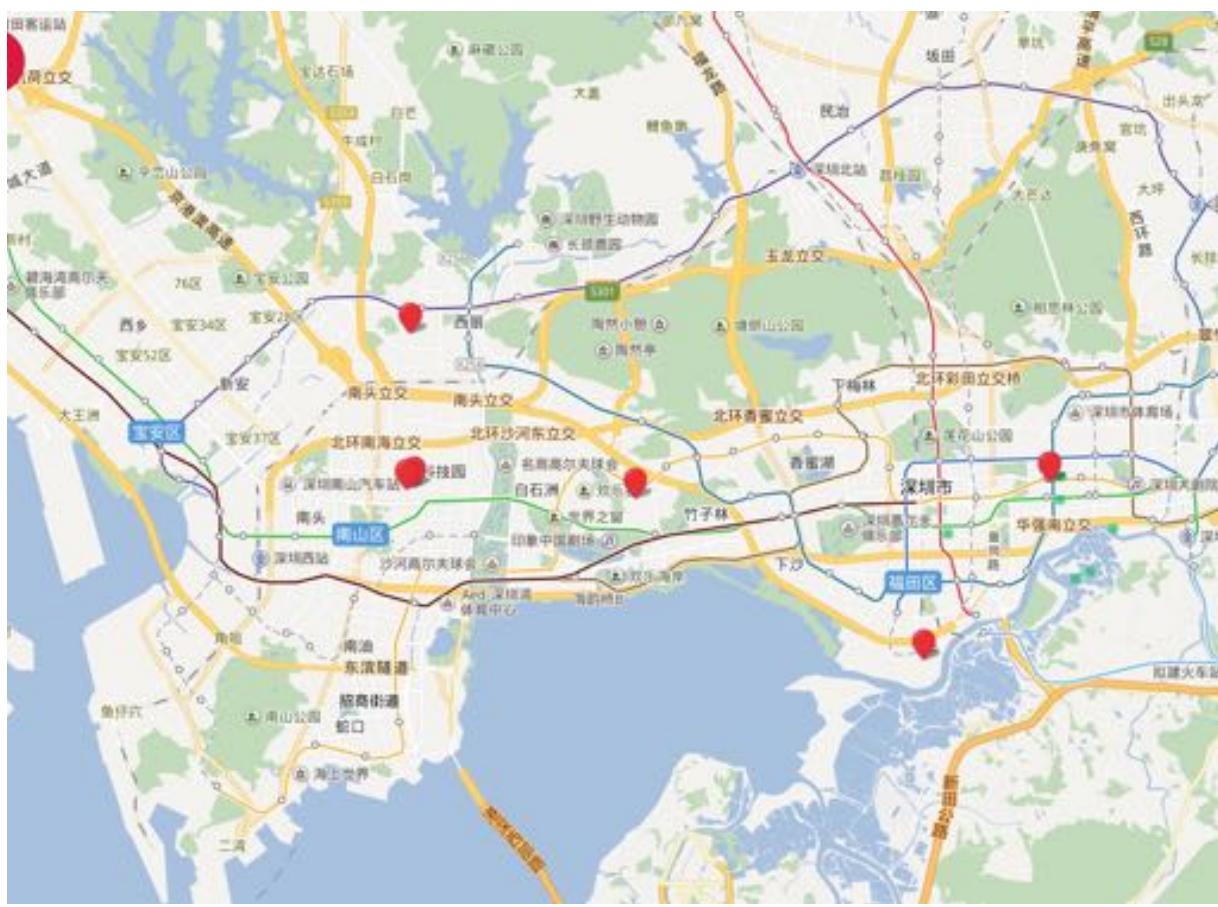
深港城市\建筑双城双年展
Bi-City Biennale of Urbanism\Architecture (UABB)
南头古城, Nantou Old Town
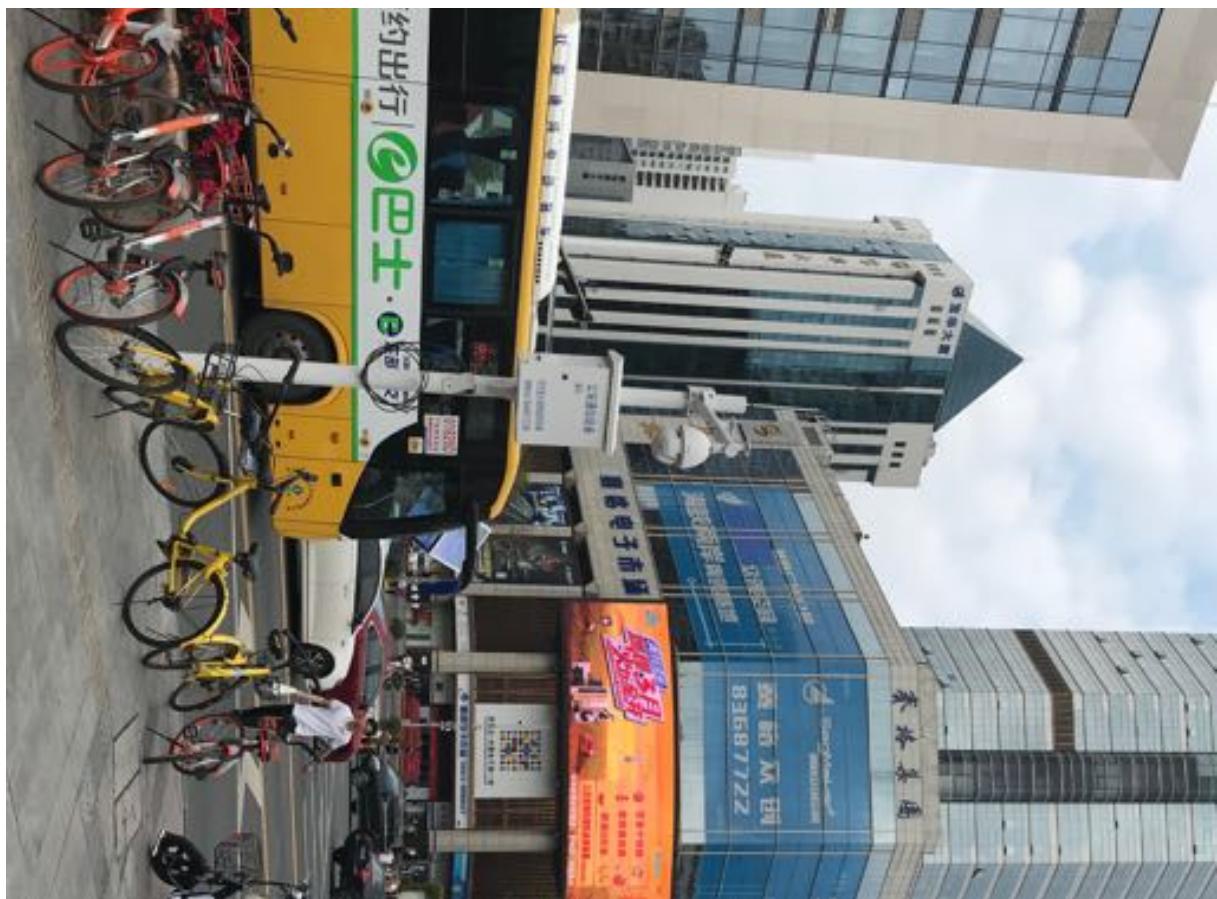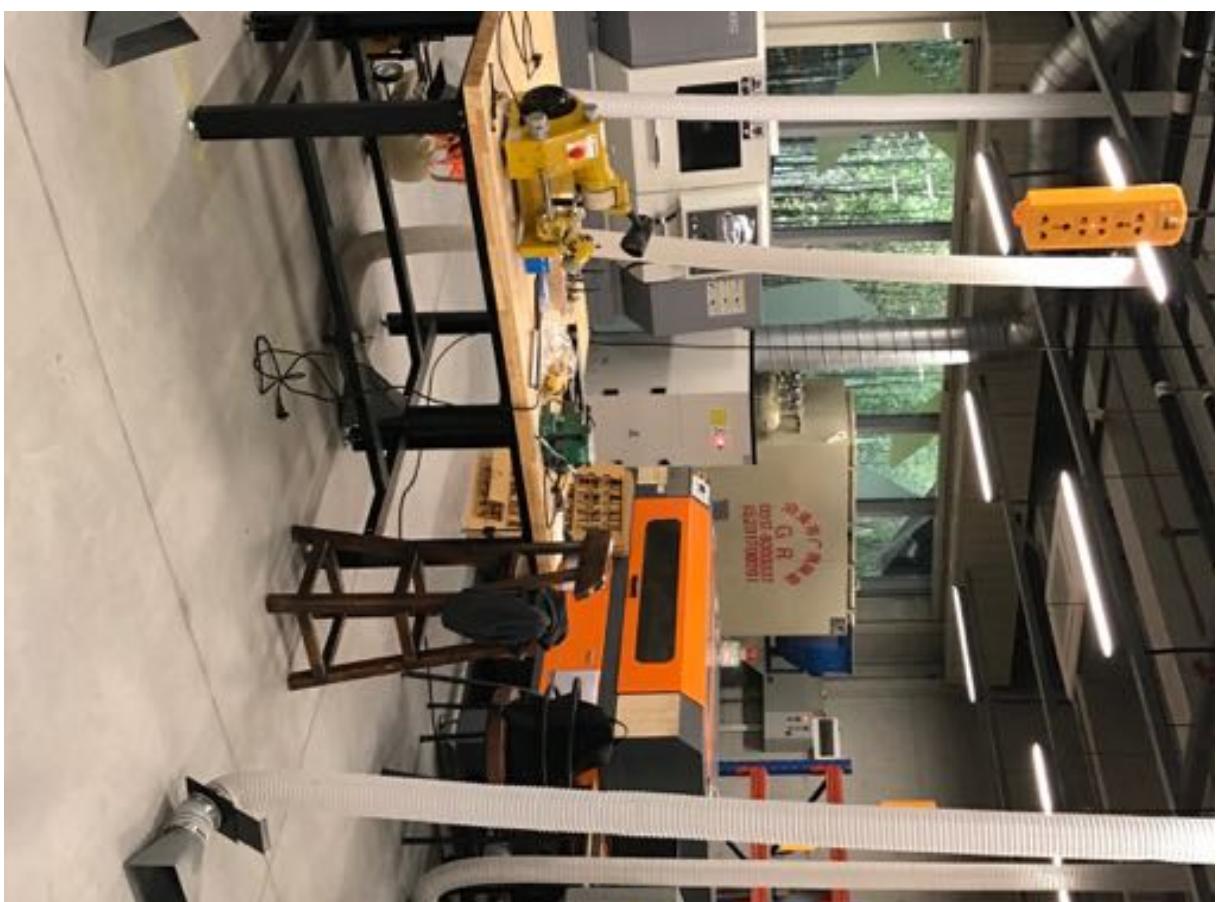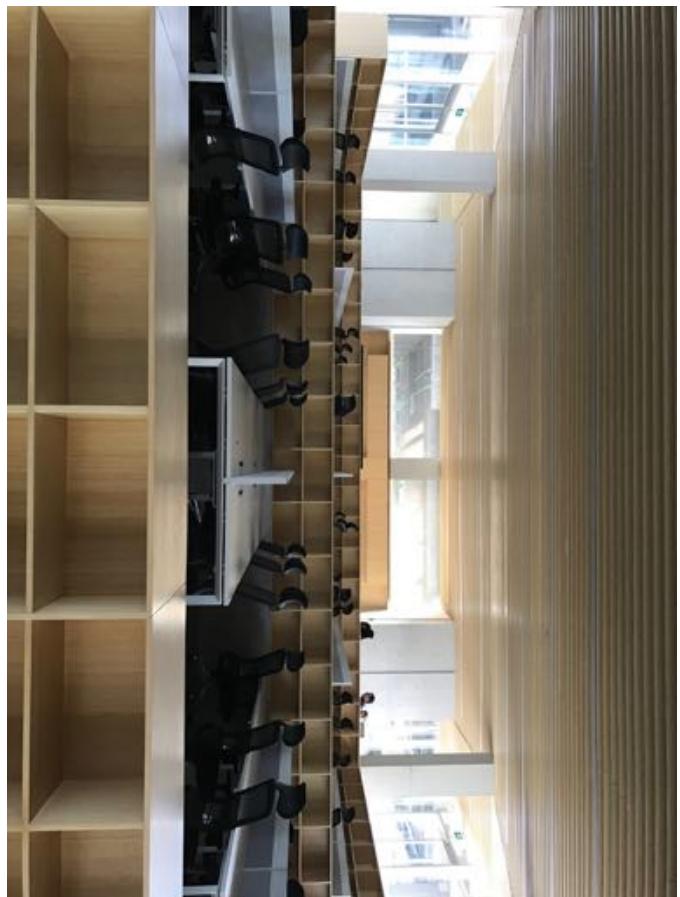
Artop Group
南山区南山大道3838深圳设计产业园
Artop Building（T）, Industrial Design Park No. 3838 Nanshan
Road, Nanshan District
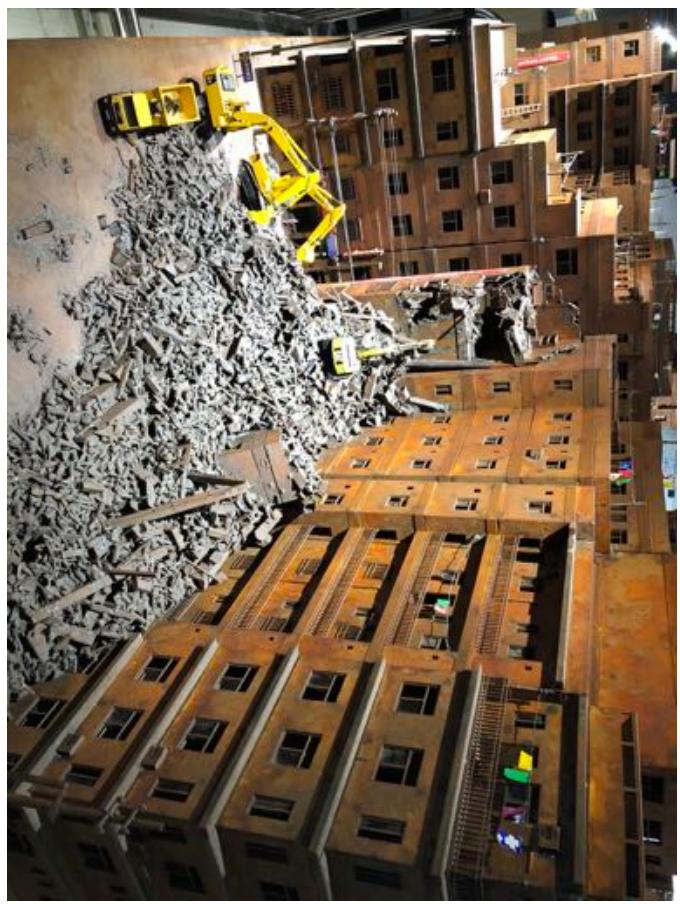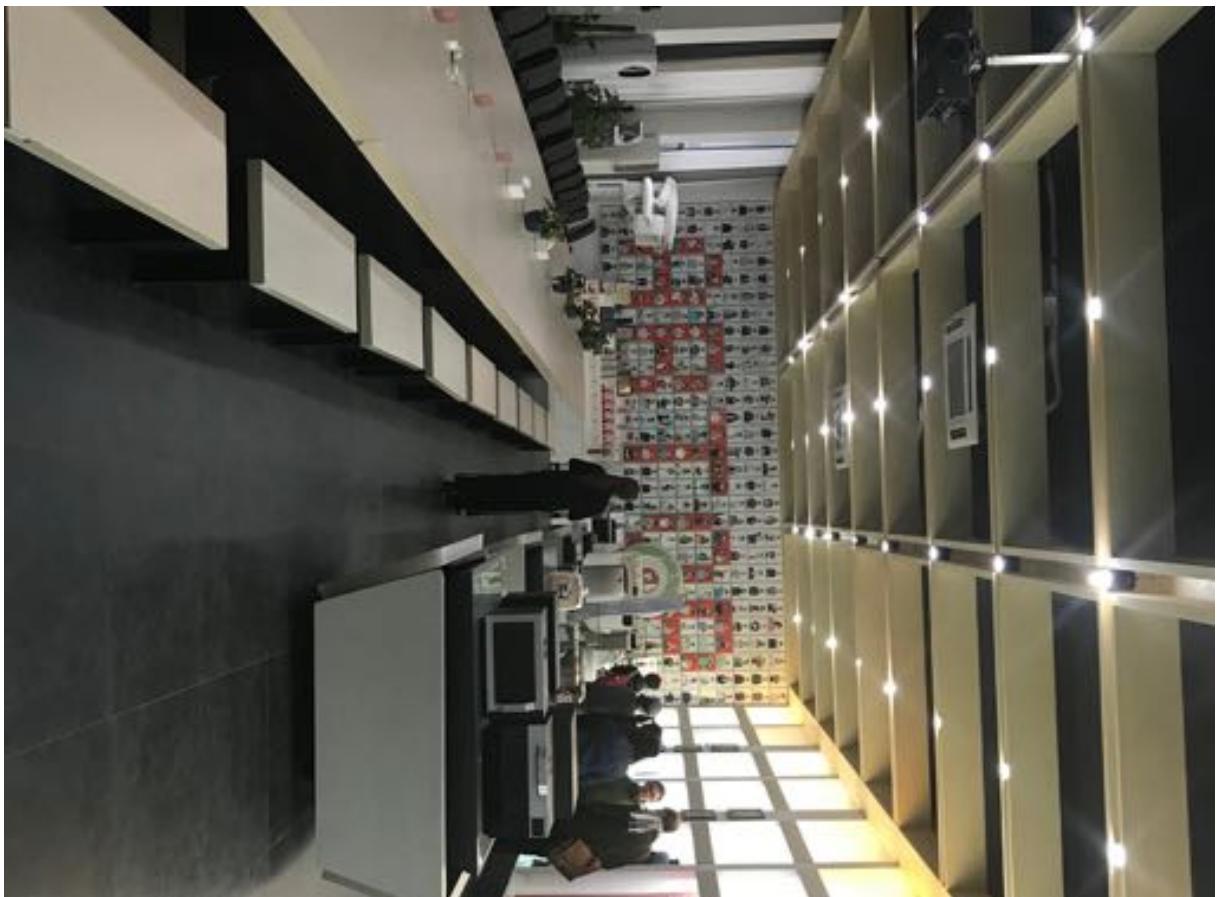
深圳市城市设计促进中心
Shenzhen Design Center
上梅林中康路8号雕塑院圆筒
Shangmeilin, Zhongkang Road 8, Futian district
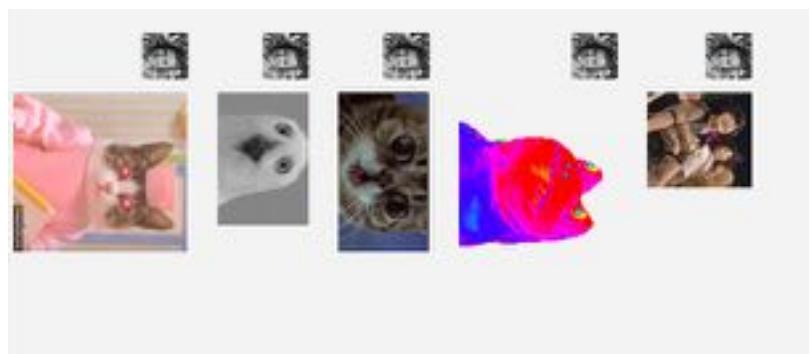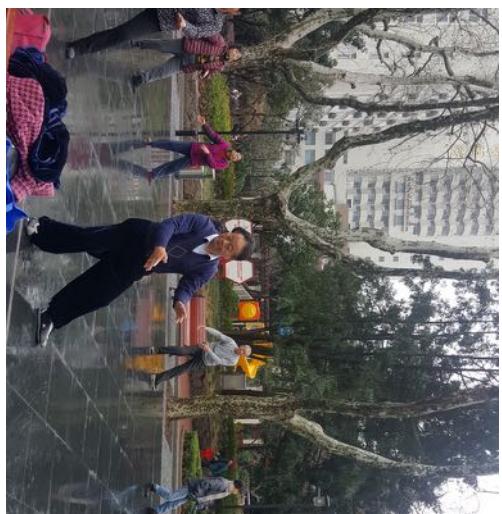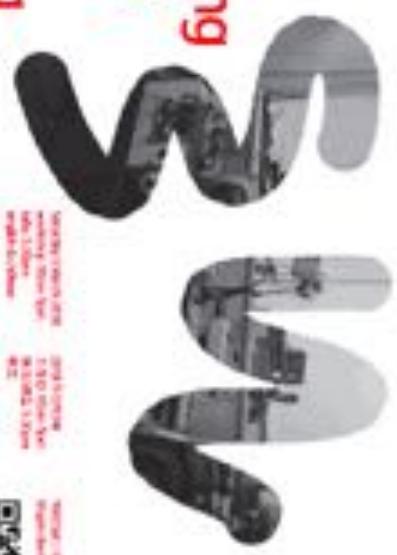
Workshops

Mapping
Spaces
for
Making

创客城市
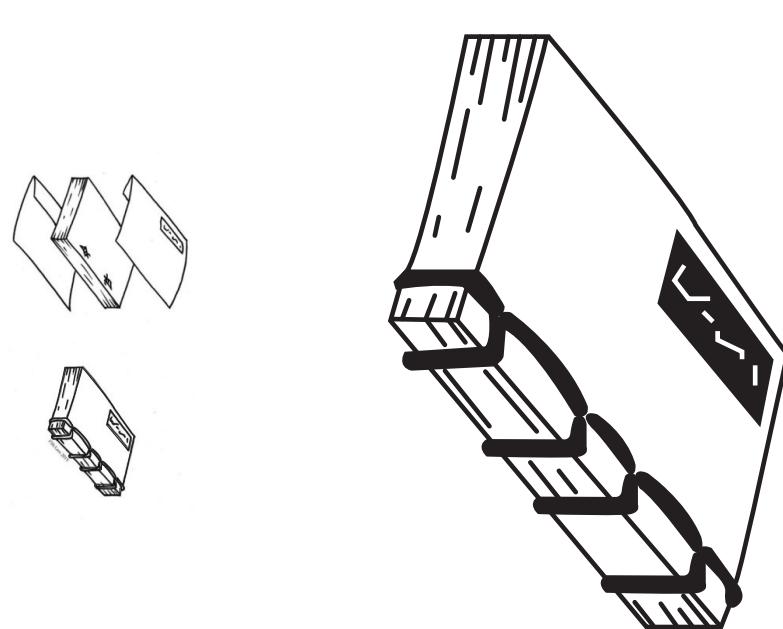
Web-to-book
binding
workshop +
book launch in
Shenzhen
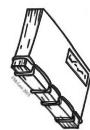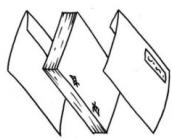
March 10th 2018 - "Mapping
Spaces for Making: Zine and
The Field Guide to Hacking"
by Michelle Poon from Dim
Hackerspace in HK

Shenzhen Design Center, 深圳市城市设计
促进中心

Shangháolu, Zhonglang Road 8, Futian
district – in the round tower. 上梅林中康
路8号城设园商

Metro Metro Line 4, Lianghua North
Road, Exit B – 4号线梅花北路站，B出口

Book binding

1

3

2

6

5

4
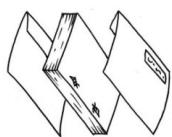
海岛

新来的人感到味觉失灵
风速太快

到处都是漩涡
地面上没有坚固的风景
地面惹你发笑
海岛也在坍塌

人们聚在一个塑料纸壳的里面
在地下载着发光的眼镜
除了讨论手机零件

人们伪装起来像一些飞行的鼹鼠
切碎的海平面把所有人连接起来
幸存者下降并找到了制造奇迹的瞬间
我们拥抱着宣布找到了积岩岩的山羊

那时海岛变得透明
似乎浮冰将成为永恒的家
我们来到同一座杯上
但是通过沙漠来辨别彼此
黑色的雾中我们门织网
这一次导航定位在电线缠绕的人造心脏
在最高的楼顶
人们再次失重