**Group 16 Project Proposal**

**Project title:** Social development of Guangdong Province between 1980 and 2015.

**Name of Students and student IDs:**

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**Project objectives:**

We want to visualize the data of the development of Guangdong province from 1980 to 2015, including the economy, the quality of life, environment, educational level, life expectancy and so on. The purpose is to show the development of Guangdong province during these years.

**Data source and background:**

The data that we want to visualize as list below:

1. Economy (GDP, income, etc).

2. The quality of life (Engel's Coefficient, price income ratio and so on).

3. Environment (pollution level).

4. Educational level (average educational years, university student number).

5. Life expectancy.

6. Time and region.

The source of data that we will collect from:

1. Baidu search engine.
2. <http://tongji.oversea.cnki.net.eproxy1.lib.hku.hk/fanti/Navi/YearBook.aspx?id=N2006061275&floor=1###> 中国知网（1980年-2015年广东省统计年鉴）( 1980-2015 GUANGDONG STATISTICAL YEARBOOK from [www.cnki.com](http://www.cnki.com)).
3. <http://www.gdstats.gov.cn/tjsj/zh/>

**The questions about data set that we want to ask：**

1. The data set that I collect may be not enough, so if there have other channels for us to get relevant data that we can get from?
2. How to focus on a special region when using tableau, such as a city called Dongguan in Guangdong province in the map?
3. Can we use combine Tableau and D3.js for making one graph?
4. How to create the graph just like the graph from Page 45 in “03 temporal, geospatial multivariate data”?

**Tasks that need to be accomplished:**

1. Proposal. (before Oct 8).
2. Finding suitable data set. (before Oct 20).
3. Making data visualization. (before Nov 8).
4. Refining the visualization. (before Nov 10).
5. Writing report and submission. (before Nov 17).
6. Presentation preparation(before Nov 23).

**Visualization tool:**

Tableau(map, pie, bar, human face).

D3.js(more flexible and technical to make graph).

**Division of labour among group members:**

Proposal: Liang Hao.

Finding data and making visualization: all of our three.

Report: Li Shuran, Liu Qingpei.