# Processed China Economic Data

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196059.7 <b>362128£223</b> .6 <b>38</b> \$\$3.8906	nan 0.06 <b>32</b>	.1 <b>588</b> nan 0.3 <b>766</b> 7	7.03 n 9374 n 84 n an n an 1.23		
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196150.0387.748573.41560564081096					
196247.2 <b>99205</b> 899 <b>03</b> 42 <b>9</b> 5505442 <b>07</b> 37					
196 <b>3</b> 0. <b>786</b> 2 <b>9</b> .86 <b>3</b> 1.0 <b>3</b> 4 <b>5</b> 6 <b>3</b> 21 <b>0</b> 745					
196459.7 <b>96</b> 11 <b>3</b> 657 <b>34</b> .5 <b>37</b> 9 <b>B8</b> 948 <b>0</b> 1456					
196570.4 <b>38</b> .6 <b>8</b> 09 <b>029</b> .0 <b>89246</b> 091 <b>6</b> 483					
196676.7 <b>2</b> 1.4 <b>772728</b> .3 <b>0</b> 4377 <b>0</b> 618 <b>6</b> 318					
196772.8 <b>\$3</b> 49 <b>3</b> 194 <b>\$</b> 5.3 <b>9</b> 1145 <b>5</b> 991 <b>9</b> 23					
196870.8 <b>4837328829</b> .6 <b>058147</b> 84 <b>5</b> 226					
196979.7 <b>0568973568</b> .9 <b>2324.4</b> 473 <b>0</b> 248i					
197092.6 <b>02</b> 00 <b>209130912</b> &7 <b>2</b> 200 <b>6</b> 071					
197199.8 <b>50</b> 62 <b>63.836.757</b> 0 <b>8</b> 1 <b>2</b> 423 <b>0</b> .447	<b>73</b> n 0.04 <b>96</b>	.7 <b>1168</b> nan 0.36 <b>89</b> 1	. <b>.h.a</b> n 833 <b>3n.a</b> n nan 1.48		
1972\13. <b>68</b> 94 <b>28</b> 16 <b>35</b> 95 <b>3</b> 653 <b>7</b> 291 <b>6</b> 5626	08n 0.05 <b>40</b>	.6 <b>073</b> nan 0.35 <b>70</b> 2	2. <b>03</b> n 104 <b>16a49</b> nan nan 1.51		
197 <b>3</b> 138. <b>523206</b> 19 <b>05</b> 76 <b>583</b> 5 <b>93</b> 25 <b>0</b> 870i	<b>1.5</b> n 0.08 <b>5</b> 0	.6 <b>334</b> nan 0.36 <b>88</b> 1	. <b>94</b> n 114 <b>58</b> a <b>h</b> 4nan nan 1.53		
197444. <b>78904.3432879213.</b> 17162	nan 0.10 <b>33</b>	.0 <b>11.1</b> nan 0.36 <b>90</b> 0	. <b>85</b> n 114 <b>58</b> a <b>h</b> 4nan nan 1.56		
0.503	-				
		.1 <b>1165</b> nan 0.38 <b>91</b> 6	5. <b>69</b> n 124 <b>99a7</b> 19nan nan 1.59		
0.386	~ ~				
1976.53. <b>939329</b> 5569. <b>3</b> 88406349899					
1977174. <b>98509529597286278</b> 106 <b>0</b> 421					
1978149. <b>540909.12804230</b> .8 <b>02.12</b> 617	nan 0.15 <b>38</b>	.7 <b>433</b> nan 0.39 <b>25</b> 6	5.1 <b>16</b> n 291 <b>66a 117</b> nan nan 1.68		
1.460					
1979178. <b>280023.76617103962</b> 653531		.1 <b>502</b> nan 0.3 <b>79</b> 69	nan 333 <b>32a760</b> nan 1.71		
1.572					
1980191. <b>949276.1266</b> 11 <b>476125.</b> 8427	nan 0.21 <b>6</b> 8	.4 <b>96</b> n nan 0.35 <b>98</b> 1	. <b>24</b> n 374 <b>99a36</b> 0.03nan 1.74		
2.43'	•				
1981195. <b>866.26.78202524537</b> 2.2 <b>2</b> 985					
198 <b>2</b> 05. <b>089.2432)68.7527</b> 9.001748811					
198 <b>3</b> 230. <b>688.740.7693.1628.79593325</b> 77					
198 <b>4</b> 59. <b>93657998213955794370</b> 05	4an 0.19 <b>08</b>	.9 <b>949</b> nan 0.34 <b>20</b> 3	36n8n 43749a250.48nan 1.83		
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198 <b>6</b> 300. <b>758.43561</b> 3. <b>2672836</b> 5926	nan 0.19 <b>88</b>	5. <b>661</b> \snan 0.35 <b>16</b> 6	661 <b>33</b> 4458 <b>32</b> a <b>5</b> 50.62nan1.87		
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198 <b>8</b> 12. <b>3536992087</b> 0. <b>0627287</b> 9847 nan	0.30 <b>06</b> 8. <b>8387</b> n	$an 0.37880 \ln 687291$	n5a411.02nan1.91
4.061			
198 <b>9</b> 347. <b>778.169.187629.3991996</b> 81488 nan	0.25 <b>12</b> 4. <b>2a</b> h8n	.an 0.35 <b>72</b> 18n <b>65</b> 7812	<b>13a.66</b> 0.98nan 1.93
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1990360.8 <b>5734922826.291139</b> 84 <b>50</b> 8668n 1991383.3 <b>53350.6785.58684379417659.</b> 4			
1992426. <b>99372</b> 84 <b>5406.603847</b> 4849987.3			
1992420. <b>939.12</b> 0.19400.00.0041:04 <i>390</i> 01.6		.3033	60W3530113.42.03
199 <b>3</b> 444. <b>79536848392.4932863</b> 723 55.7			<b>056728</b> 181912.5 <b>2</b> .06
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1994564. <b>328979.75229</b> . <b>002397.727</b> 035 <b>6</b> 0.3	<b>623523</b> 6. <b>264</b> .7	9220.418291664.5766	<b>3649365</b> 9910.6 <b>2</b> .1
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199 <b>5</b> 734. <b>386.9577485.2372858.900258</b> .4			<b>64128</b> 8810.1 <b>3</b> .14
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199 <b>&amp;</b> 63. <b>40936</b> 3. <b>929@56483726158</b> 8.5	0.000 - 0.000 0.00	0 - 00	<b>Q11946</b> 510.2 <b>0</b> .17
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1997961. <b>602.332524565873147.6235263</b>		8.5647	029124601310.18.21
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199910945 <b>053399294331685569495</b> 84437			07. <b>02828</b> 7512.5 <b>2</b> .28
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200012115 <b>66.1283 \$969:2289.7292.12867269</b>	<b>.633944</b> 1. <b>288</b> 66	32 <b>8</b> ).36 <b>42</b> 6 <b>2.66.82</b> 08	<b>2723</b> 64813.2 <b>0</b> .31
	4	3.3542	
200113396 <b>49@992.876.9742.96</b> 3. <b>98389</b> 6			<b>60337</b> 5114.6 <b>2</b> .33
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200214706 <b>6672368348332293379322</b> 5			9 <b>2382</b> 6115.3 <b>0</b> .35
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201 <b>0</b> 608 <b>72099387(92899).0621483223222140</b> 7	<b>9</b> 0.7510 <b>322</b> 092 <b>547</b> 5	<b>9638781309</b> 377 <b>.7</b> 3. <b>27</b> 49	<b>1966807</b> 9 24.3 <b>2</b> .44
201 <b>17</b> 55 <b>1263<b>3705</b>08<b>7</b>0<b>9206618091803006</b></b>	<b>3</b> 0502746329498	<b>54@B2983</b> 457. <b>0</b> 8. <b>28</b> 12	04 <b>343</b> 77126.5 <b>2</b> .48
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## Notes on Computation

## **Data Sources**

The raw data in china\_data\_raw.md comes from the following sources:

- World Bank World Development Indicators (WDI) for GDP components, FDI, population, and labor force
- Penn World Table (PWT) version 10.01 for human capital index and capital stock related variables
- International Monetary Fund (IMF) Fiscal Monitor for tax revenue data

This processed dataset was created by applying the following transformations to the raw data:

## **Unit Conversions**

- GDP and its components (Consumption, Government, Investment, Exports, Imports) were converted from USD to billions USD
- Population and Labor Force were converted from people to millions of people

#### **Derived Variables**

#### **Net Exports**

Calculated as Exports - Imports (in billions USD)

Net Exports = Exports - Imports

#### Physical Capital

Calculated using PWT data with the following formula:

```
K_t = (rkna_t / rkna_2017) * K_2017 * (pl_gdpo_t / pl_gdpo_2017)
```

Where: -  $K_t$  is the capital stock in year t (billions USD) - rkna\_t is the real capital stock index in year t (from PWT) - rkna\_2017 is the real capital stock index in 2017 (from PWT) -  $K_2017$  is the nominal capital stock in 2017, estimated as GDP\_2017 \* 3.0 (capital-output ratio) -  $pl_gdpo_t$  is the price level of GDP in year t (from PWT) -  $pl_gdpo_2017$  is the price level of GDP in 2017 (from PWT)

## TFP (Total Factor Productivity)

Calculated using the Cobb-Douglas production function:

$$TFP_t = Y_t / (K_t^alpha * (L_t * H_t)^(1-alpha))$$

### Extrapolation to 2025

Each series was extrapolated using the following methods:

#### ARIMA(1,1,1) model

- GDP (2024-2025)
- Consumption (2024-2025)
- Government (2024-2025)
- Investment (2024-2025)
- Exports (2024-2025)
- Imports (2024-2025)

#### Average growth rate of historical data

- FDI (% of GDP) (2024-2025)
- rgdpo\_bn (2020-2025)
- rkna (2020-2025)

- pl\_gdpo (2020-2025)
- cgdpo\_bn (2020-2025)
- Physical Capital (2020-2025)

## Linear regression

- Population (2024-2025)
- Labor Force (2025)

## IMF projections

## Other methods

• Human Capital (2020-2025)