## SPECULATING STRATEGY: Effect of Changing TARGET PRICE on ACTUAL PRICE

Instructor: Dr. Vinci Chow

# Equity Research

Industry Research, Fundamental Analysis and Valuation Modeling by Equity Research Analysts

Ultimate Goal of Stock Valuation: Target Price ->An Estimated Price Given by Them

## Recommendations Derived





## Chu Chi Chiu, Kenneth Kong Chan Yat, Lawrence



## Why Target Price Matters?

Reference For Investment Decisions, esp. Large Traders

E.g.: Fund House, Institutional Investors -> Large Market Power

## Research Questions

- -Does a Change in Target Price Affects Actual Stock Price?
- -Strong Relationship between Target Price and Actual Price?
- -Are those Predictions Accurate?

## Research Setup

Define Variables:

LP.: Last Price at time t

TP<sub>+</sub>: Consensus Target Price at time t

#### Vector Autoregression

$$LP_{t} = \alpha_{LP} + \beta_{1}LP_{t-1} + \beta_{2}TP_{t-1} + \epsilon_{t}$$

$$TP_{t} = \alpha_{TP} + \beta_{3}TP_{t-1} + \beta_{4}LP_{t-1} + \epsilon_{t}$$

#### Log Transformation + Total Differentiation:

$$P(LP_t) = P(\alpha_{LP}) + \beta_1 P(LP_{t-1}) + \beta_2 P(TP_{t-1}) + P(\epsilon_{LP,t})$$

## $P(TP_t) = P(\alpha_{TP}) + \beta_3 P(TP_{t-1}) + \beta_4 P(LP_{t-1}) + P(\epsilon_{TP_t})$

#### P(k) represents the precentage change in k

B: Effet of Percentage Change in LP/TP at t-1 on Left-hand Side Variable

## Data Selection and Processing

Selected Stocks (Name, Code):

CKH HOLDINGS	0001	TENCENT	0700
CLP HOLDINGS	0002	PETROCHINA	0857
HK & CHINA GAS	0003	CNOOC	0883
HSBC HOLDING	0005	CCB	0939
POWER ASSETS	0006	CHINA MOBILE	0941
HANG SENG BANK	0011	ICBC	1398
SHK PROPERTIES	0016	PING AN	2318
SINOPEC CORP	0386	BOCHK	2388
HKEX	0388	CHINA LIFE	2628
CHINA OVERSEAS	0688	BOC	3988

Range of Data: 1 Jan 2009 - 31 December 2018

Stock Selection Criteria:

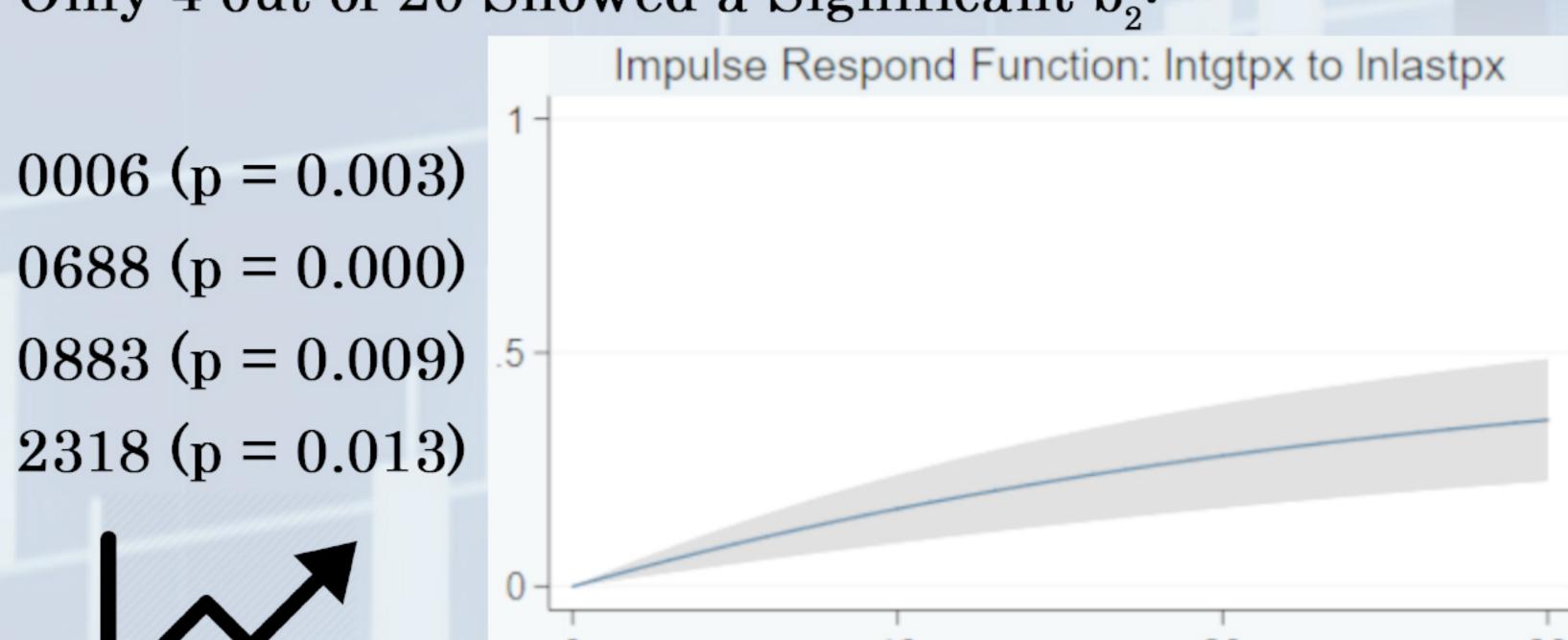
Large Share in HSI, Remained in HSI for the period

Data Source: Bloomberg Terminal

### Results

Goal: Test the Signifiance of  $\theta_2$ 

Only 4 out of 20 Showed a Significant 8,:



# 30 20 Days

## Discussions

Change in target price — Change in current price?

Significance Accuracy? Not necessarily!

Specific Analysts' Accuracies?

Limitations: Data Coverage

#### Interested?

Check Out Financial News Updates to Know the Target Prices!