

BIZ & ICT ALIGNMENT

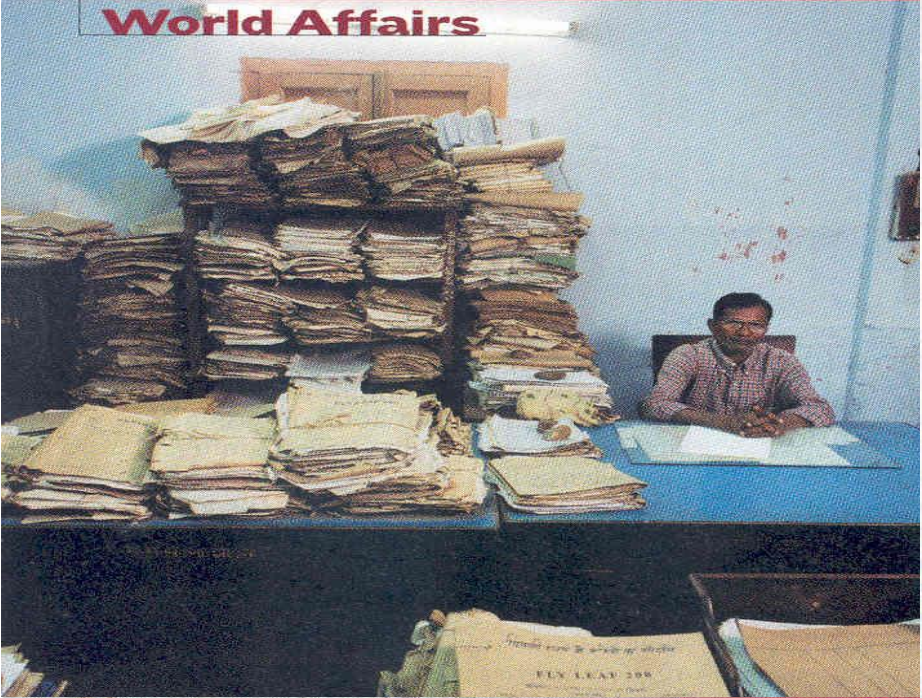
CIO#25

FEB 2015

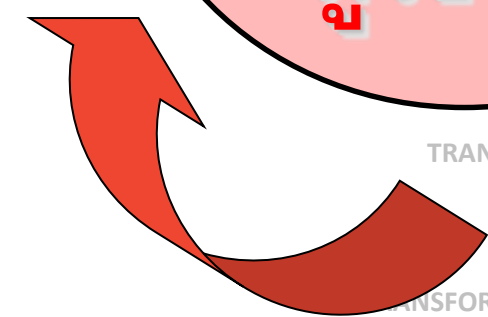
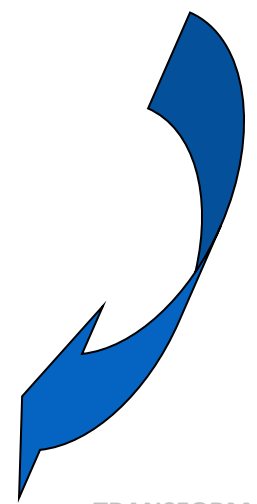
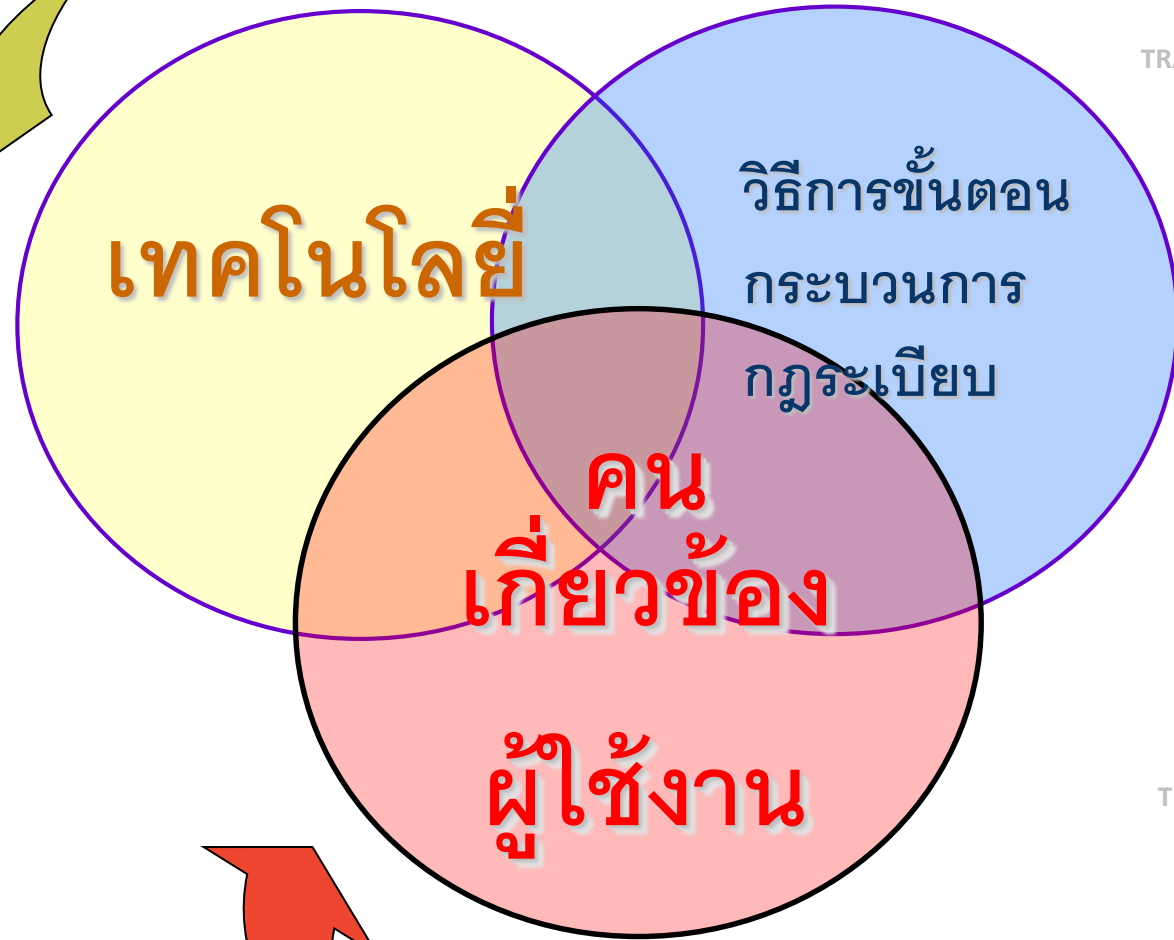
TOPIC FOR DISCUSSION

- BUSINESS PROCESS RE-DESIGN (BPR) or DO AS THE SAME
- STAKE HOLDER ; CUSTOMER ; YOU ,YOURSELF.
- BIZ DIRECTION >> STRATEGY >> MASTER PLAN
- NORMAL >> RISK ANALYSIS >> CONTENCY PLAN >> BCP/BCM
- SUSTAIN ?

World Affairs



3 ประเด็น ที่ควรดำเนินการ พร้อมๆกัน



นำเทคโนโลยีมาใช้

โดยไม่ปรับปรุงกระบวนการ ไม่ได้สอนการใช้

Old
Organization

+

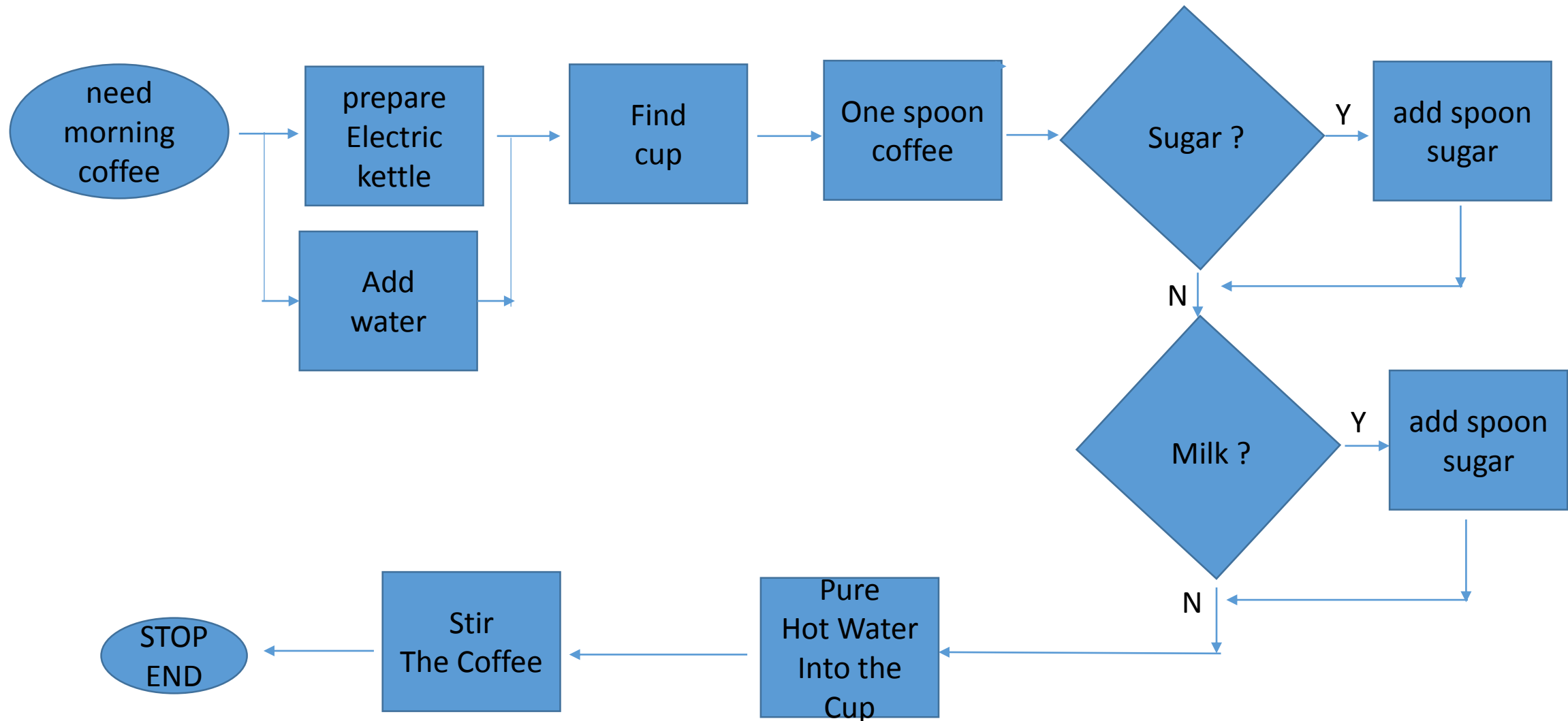
New
Technology

=

Old Expensive
Organization

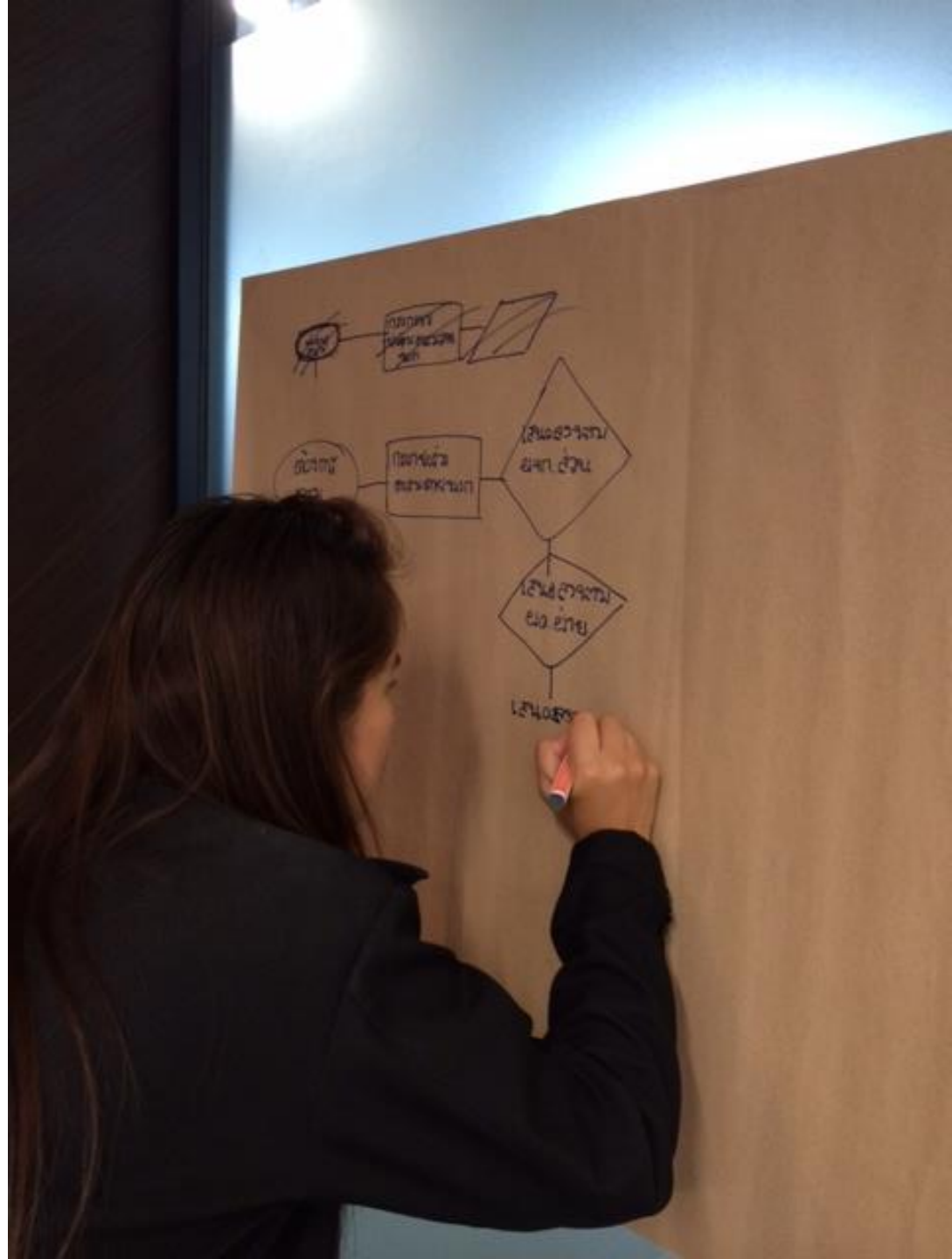
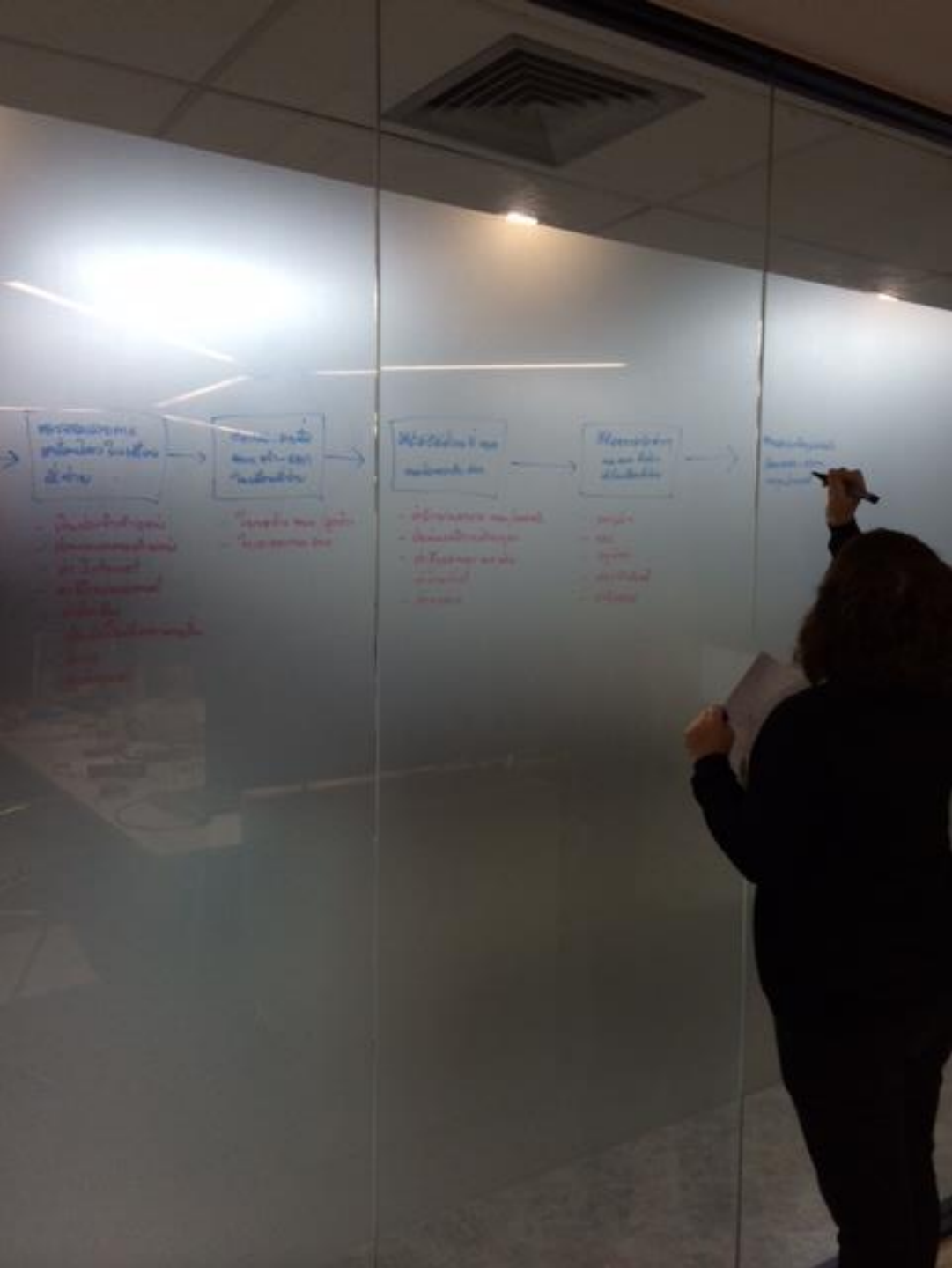
EXAMPLE

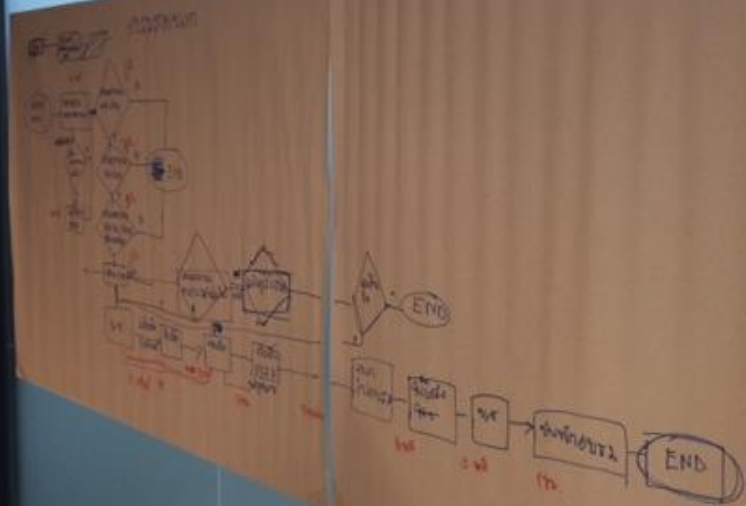
"DO A CUP OF COFFEE"



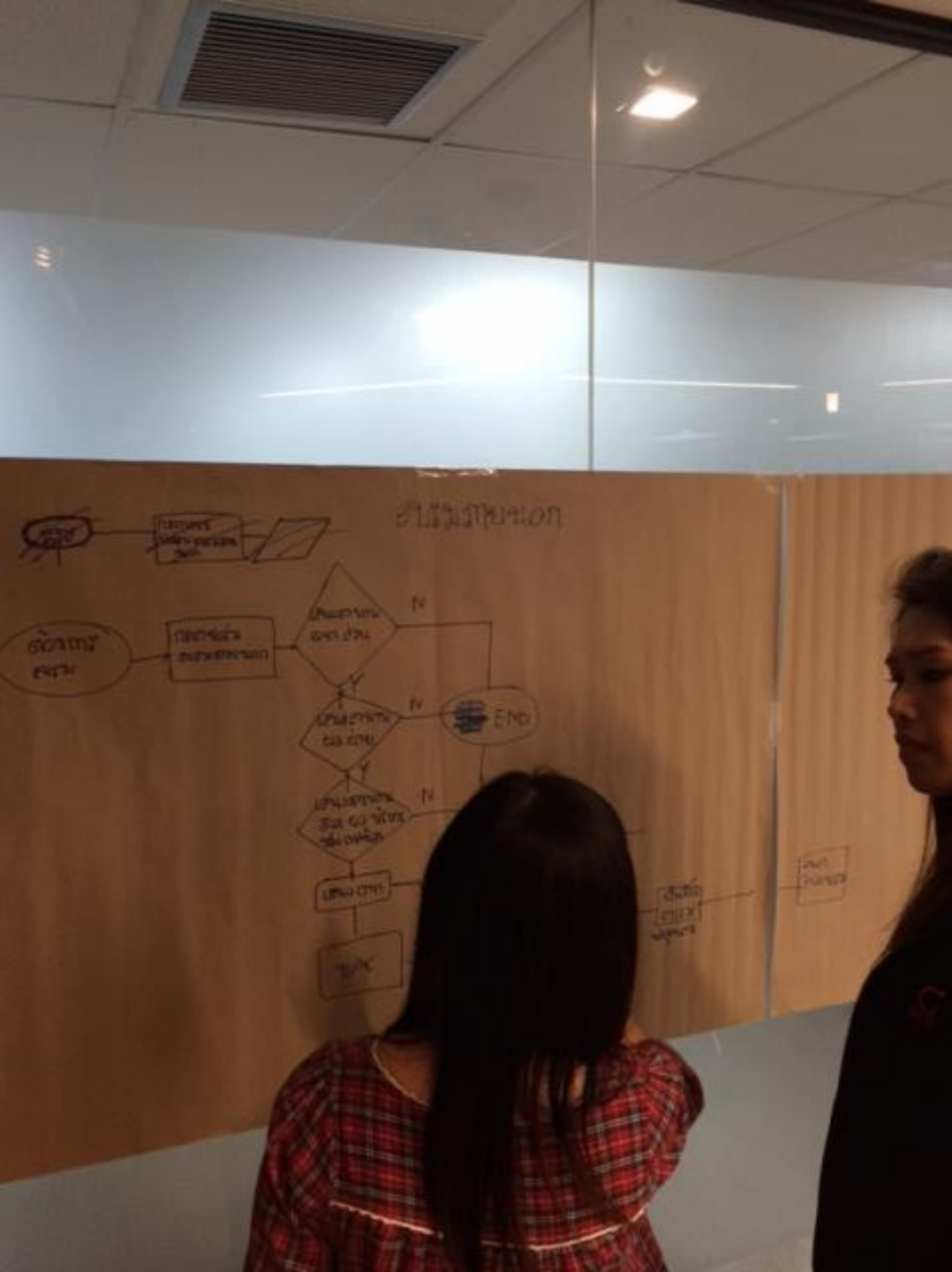
ทิศทางวัตถุประสงค์ ธุรกิจของท่าน

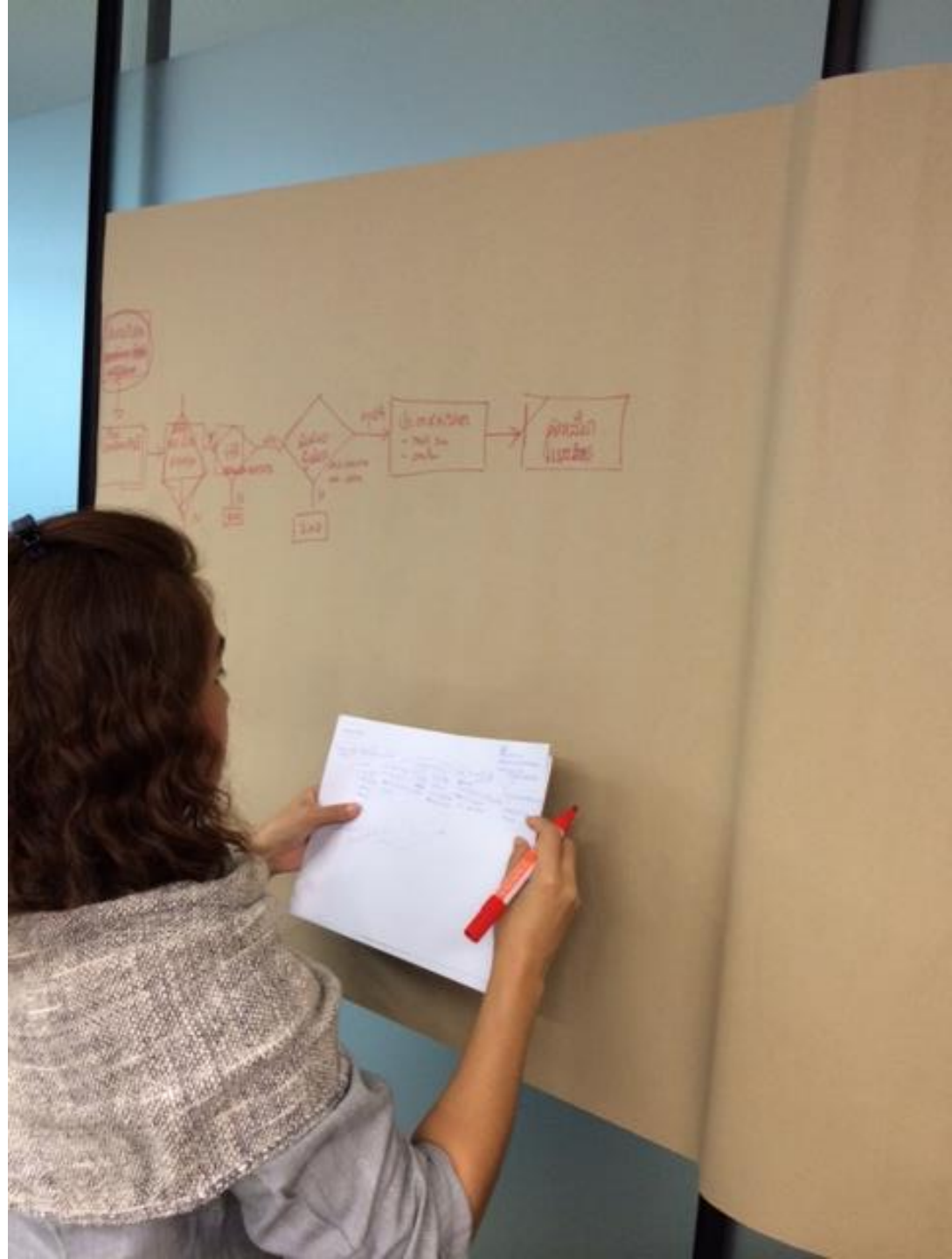
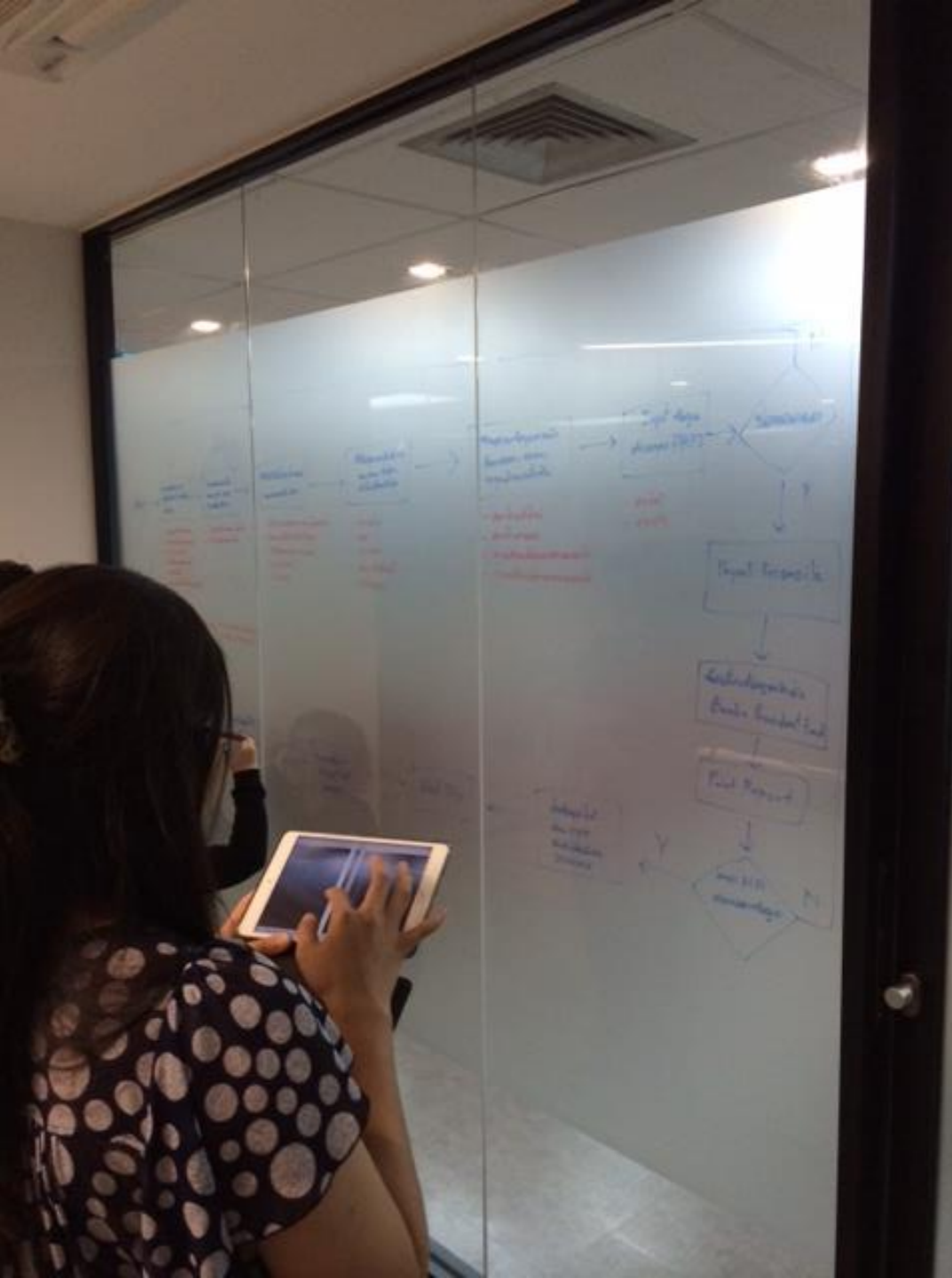
- ทำแค่ร้านเดียว ที่เดียว
- ทำทั่วประเทศ รสชาติ ราคาเป็นมาตรฐาน
- ทำทั่วโลก ควบคุมมาตรฐาน ได้เท่าเทียมกัน

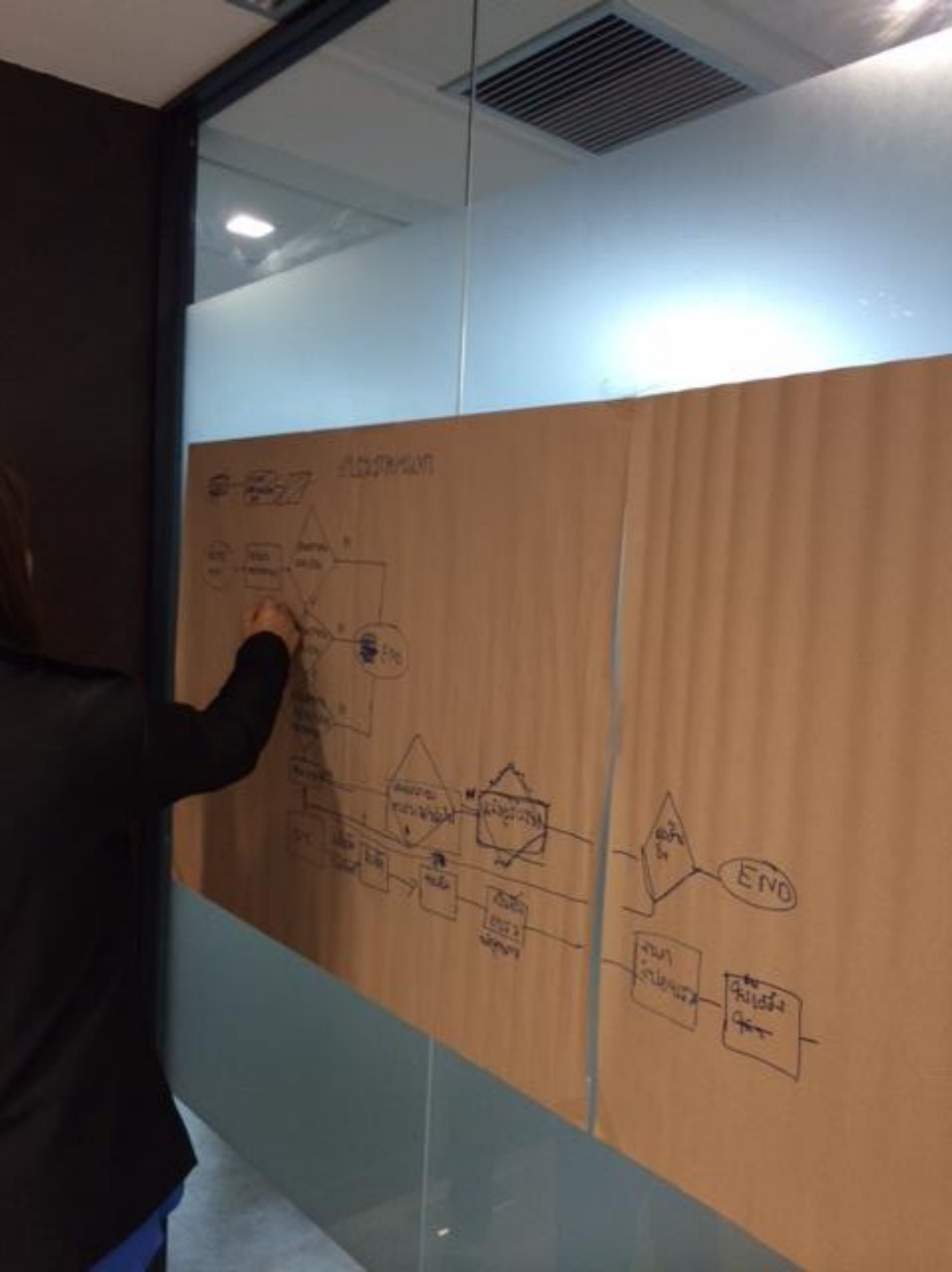





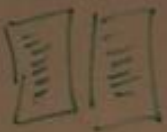
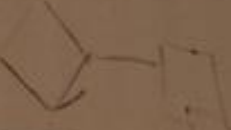
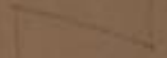
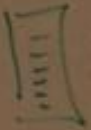











	AKNO	TIME (HR)	11/10/2020
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	putih	2	
	putih	1	
	putih putih	1.5 .5	
			
		0	
TOTAL			

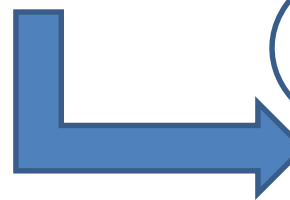
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Integrated of Process Systems

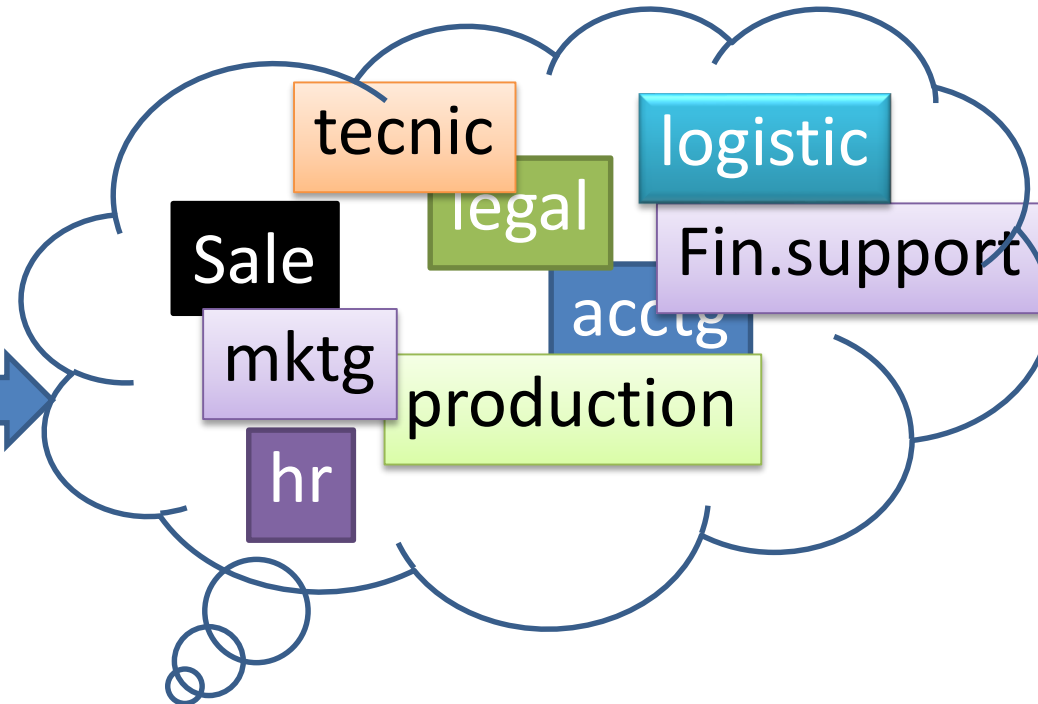
WHY สถาปัตยกรรม is IMPORTANT ?

VISION

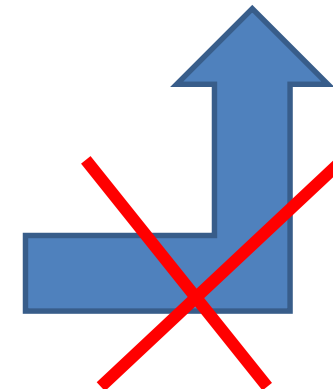
Very clear



PROCESSES



REALITY



Slow

Un accurate

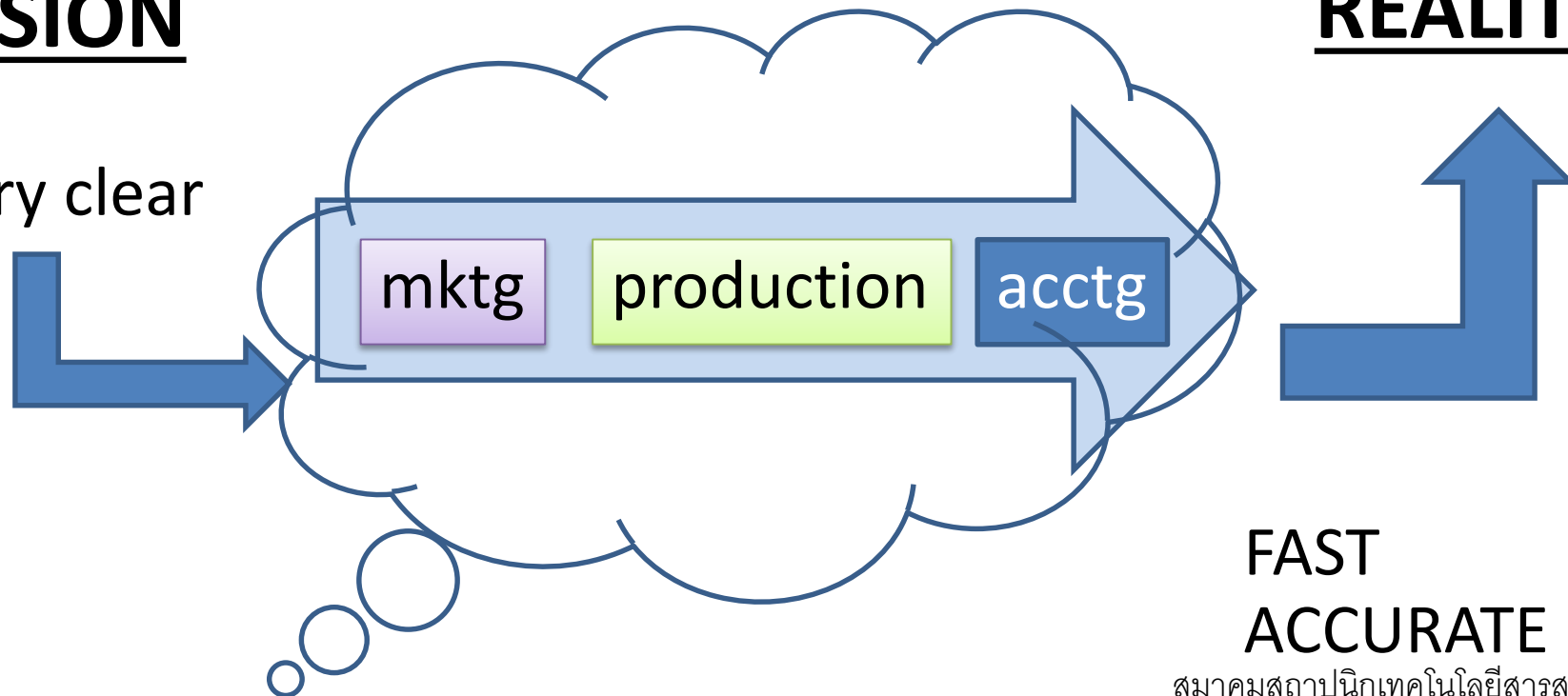
Integrated of Process Systems

มีพิมพ์เขียวชัดเจน

VISION

Very clear

PROCESSES





Poonlarb Chatchawalkhosit ▶ CSA Thailand Chapter

Yesterday at 08:36 · 🌐

Uhhh

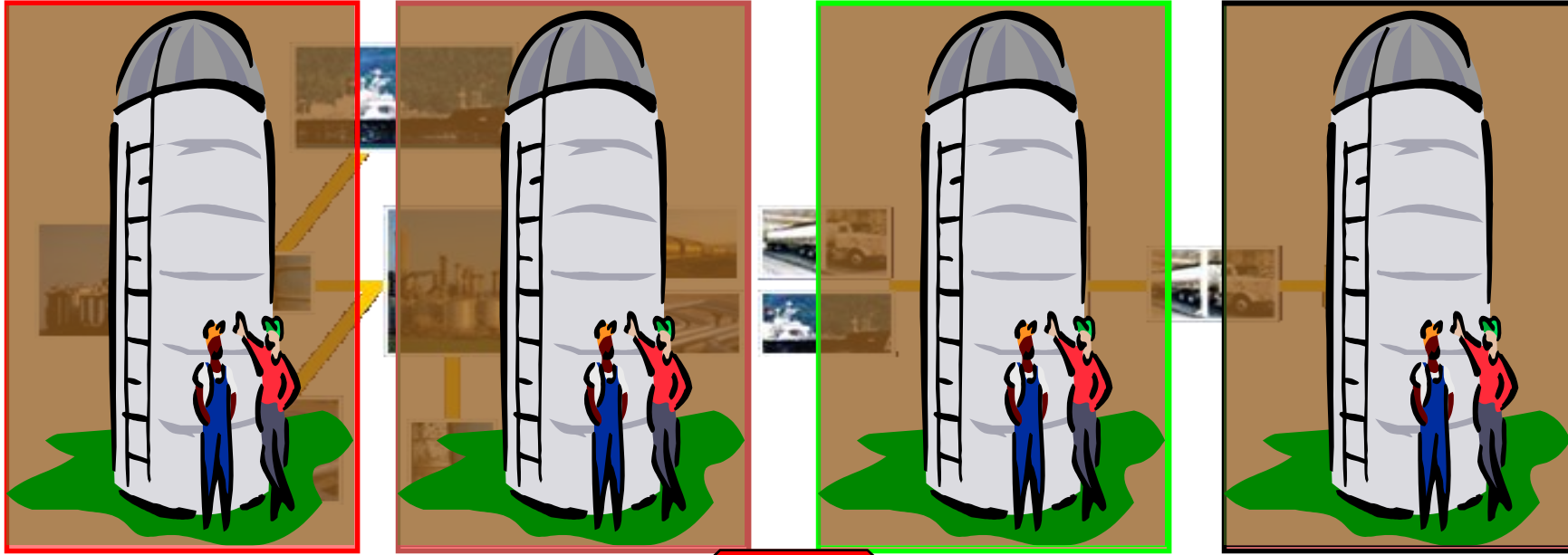
ภูอยู่ในประเทศที่
 “บัตรประชาชนเป็นสมาร์ทการ์ด”
 แต่เวลาใช้งานต้อง“ถ่ายเอกสาร”
 ขอขอบคุณสำหรับ
 “การผลาญงบประมาณ”



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Kitisak Jirawannakool and 6 others like this.



ซีไอโอ ท่าน อยู่เบื้องหลัง



เป็นสมองเป็นแรงเป็นกำลังที่สำคัญของประเทศไทย
ที่กำลังเปลี่ยนแปลงวิธีการขนบธรรมเนียมการทำงาน

จากต่างคนต่างทำ หวงข้อมูล

FLAGMENTED >>> INTEGRATED ENVIRONMENT

ทำให้ประเทศเรา ทำให้ คนรุ่นหลังๆ สู้เค้าได้

CONSIDERATION

- YOUR BIZ : FOR YOUR BOSS ; FOR THAI CITIZEN ; FOR FORIAGNER ..
FOR YOUR FAMILY ; COMMUNITY ; OUR COUNTRY
FOR
- SPEED IS NEEDED ? ; PERFECT IS NEEDED ?
- TOP EX. ; MIDDLE MANAGEMENT ; STAFF
- SIMPLE ; COMPLECATED
- CONNECTED ; COMMUNICATE ; CONSOLIDATE ; COLLAVORATE

Programmes for Government >

Programmes Index >

eGAP II > The Electronic Medical Record Exchange

[« back to Programmes for Citizens](#)



Objectives

The Electronic Medical Record Exchange, or EMRX allows all public hospitals and polyclinics in Singapore to share patient records online. This will contribute significantly to improved patient care outcomes.

"Patients First" Healthcare Services with Electronic Medical Record Exchange

In today's world, Infocomm technology wizardry can solve puzzling medical cases within seconds. Take the case of a 35-year old housewife who had a drug overdose. Armed with the woman's name and identity card number, and the knowledge that she had just been discharged from another hospital the previous day, the doctor tapped into a computer system and found out what drugs that she had taken. Providing a remedy, the woman was soon declared out of danger.

This computer system is the **Electronic Medical Record Exchange**, or **EMRX** and it is proving to be a lifeline to the hundreds who pack the hospital emergency units since its launch in April 2004. The EMRX allows all public hospitals and polyclinics in Singapore to share patient records online.

EMRs are essentially electronic versions of paper-based medical records. But unlike paper-based medical records, digitised versions can be easily shared online across IT-enabled healthcare institutions. This will contribute significantly to improved patient care outcomes.

- Programmes for Government >
- Programmes Index >

iGov2010 > e-Visitor

[« back to Programmes for Citizens](#)



Objectives

The e-Visitor programme is an innovative programme that consists of a spectrum of e-services with streamlined processes to make it more convenient for foreigners to visit and stay in Singapore.



COST SAVINGS

1.2 MILLION
YEAR

REDUCTION 
1 MILLION HOURS WAITING TIME

(Updated June 2011)

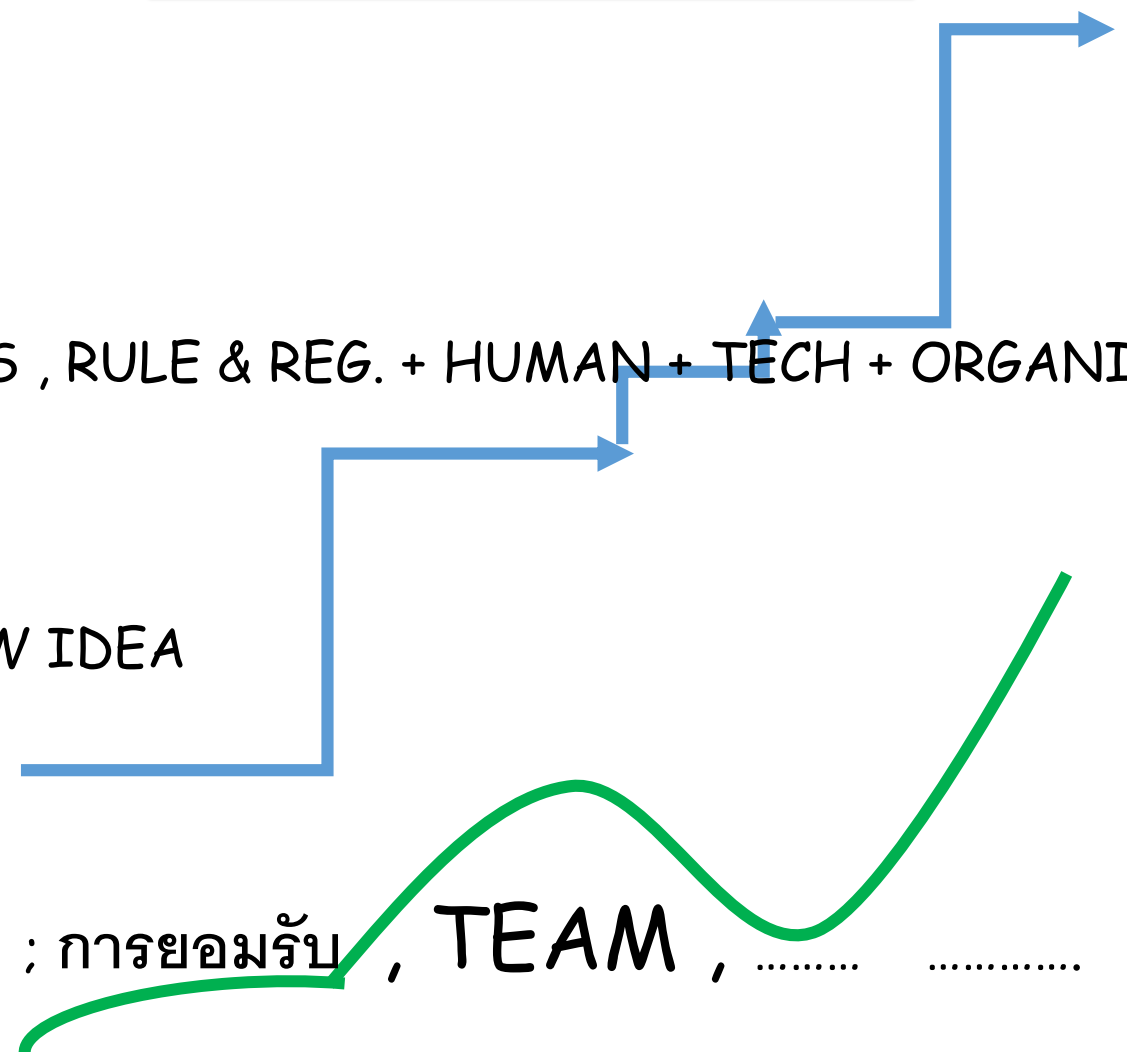
Introduction:

When it comes to understanding their customers, no other organisation does it better than the Immigration & Checkpoints Authority (ICA). So it really doesn't come as a surprise when ICA garnered the "Service Innovation" category award in the Government Technology Award 08, organised by FutureGov, on 17 October 2008.

LOCAL >> ASEAN >>> GLOBAL

TRANSFORM

- RADICAL CHANGE
- BUSINESS PROCESS , RULE & REG. + HUMAN + TECH + ORGANIZATION / OPERATION
- SPEED
- INNOVATION , NEW IDEA
- THROW AWAY
- MUST HARMONIZE ; การยอมรับ , TEAM ,



AT THE END , PPL IN ORGANIZATION ARE THE PERPSON WHO WILL PERFORM

BUSINESS TRANSFORMATION

Effectiveness Equation

$$Q_{\text{Quality}} \times A_{\text{Acceptance}} = E_{\text{Effectiveness}}$$

100	X	0	=	0
0	X	50	=	0
5	X	1	=	5
5	X	5	=	25

Acceptance is Key to Making It Happen & Sustain

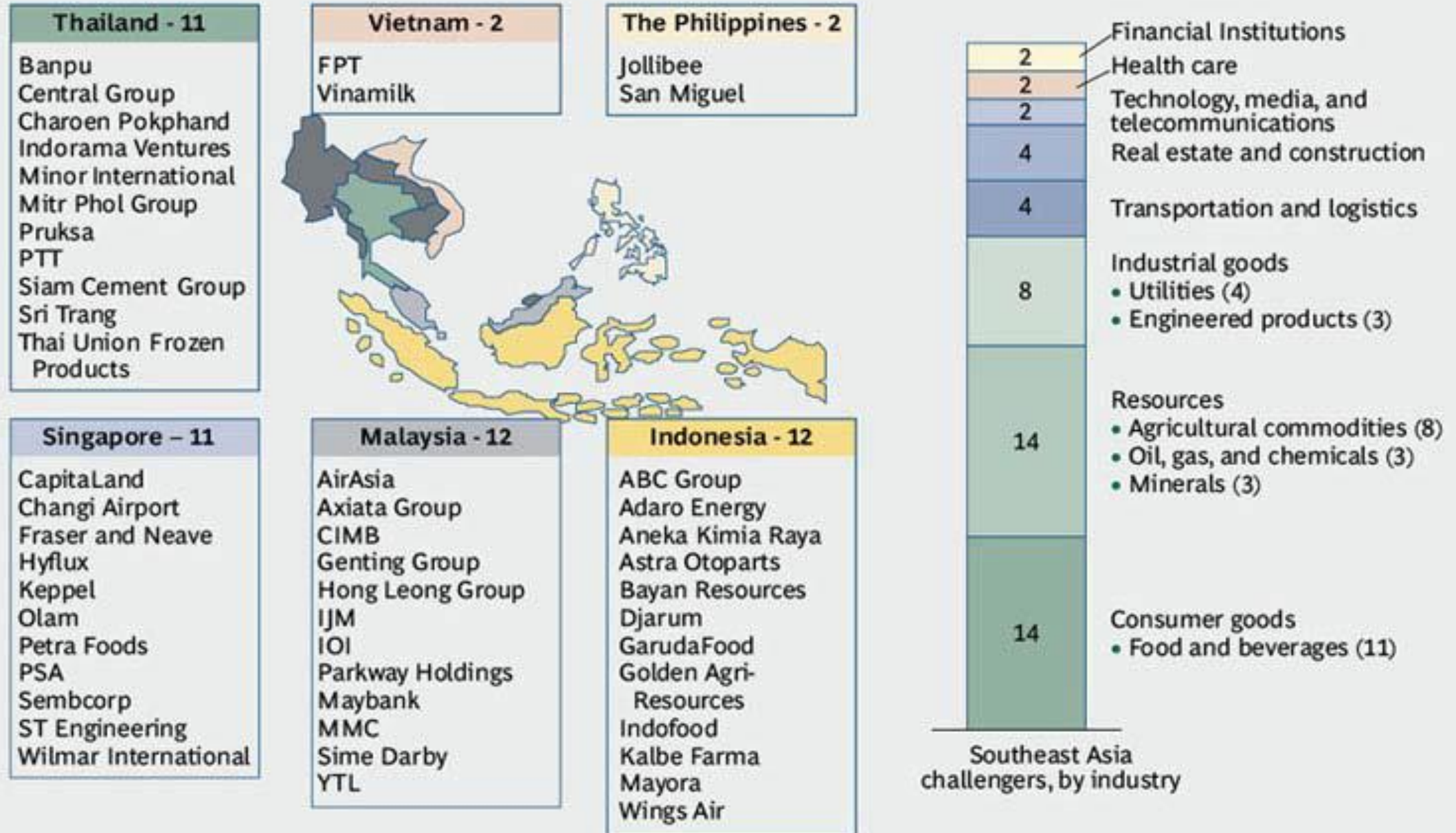
BUSINESS

TRANSFORMATION

DRIVES **ASEAN** TO HIT
NEW HEIGHT

chaicharearn@hotmail.com

EXHIBIT 2 | The Southeast Asia Challengers Are a Study in Diversity

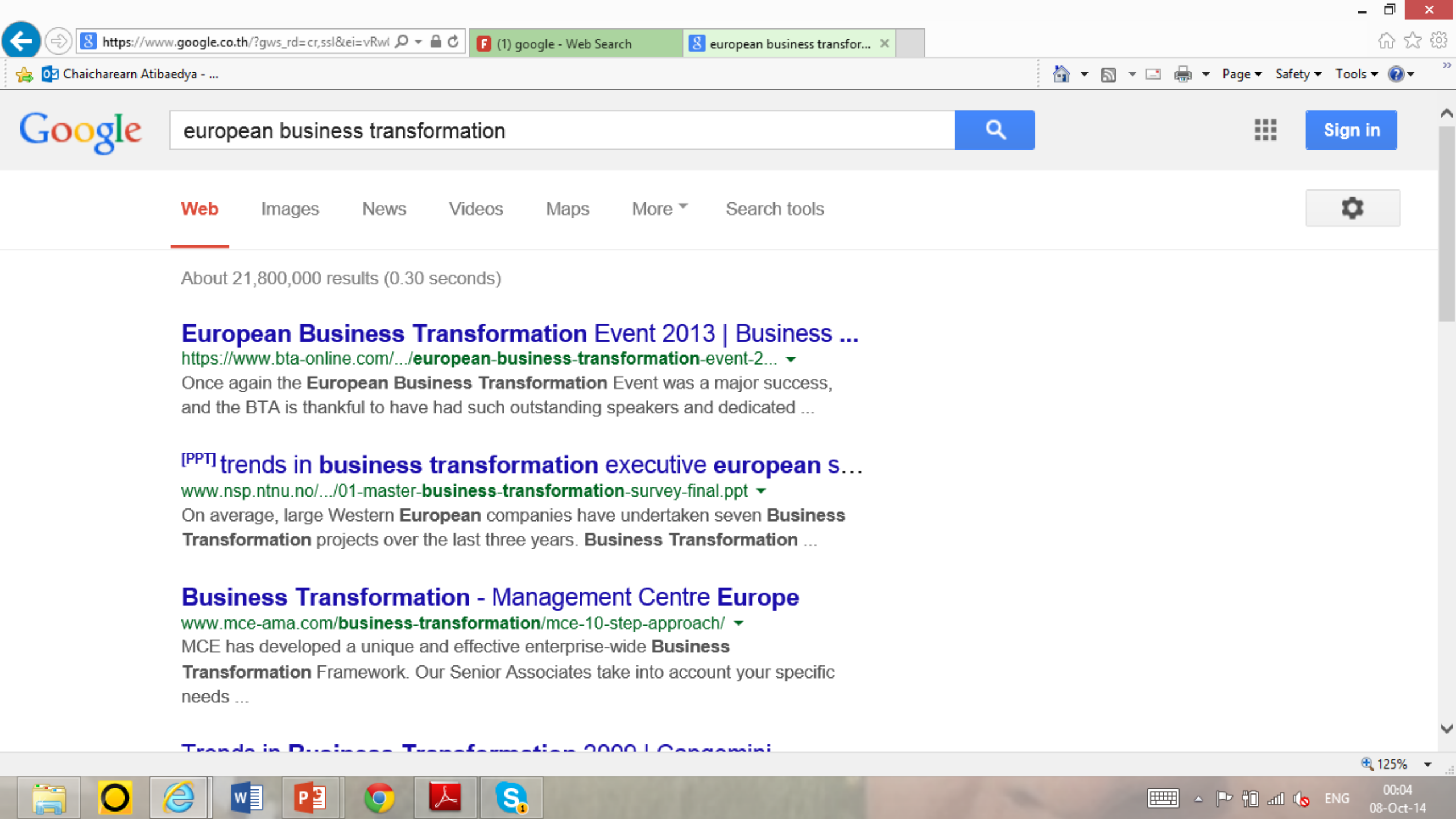


Source: BCG analysis.

EXHIBIT 5 | The Southeast Asia Challengers Pursue Four Broad Internationalization Strategies

	Natural-resource play	Regional rollout	Masters of emerging markets	Global niches
Examples	Adaro Energy, Olam, Sime Darby	AirAsia, Axiata Group, CIMB, Maybank	CapitaLand, Central Group, Mayora	Changi Airport, Indorama Ventures, Keppel, YTL
Competitive advantage	<ul style="list-style-type: none"> • Access to resources • Cost advantages through scale and low-cost labor • Supply chain capabilities 	<ul style="list-style-type: none"> • Access to licenses • Local consumer insight • Customized business models 		<ul style="list-style-type: none"> • Cost leadership through scale • Superior operating models
Growth drivers	<ul style="list-style-type: none"> • Increasing global demand for resources 	<ul style="list-style-type: none"> • Regional growth • Rise of the middle class 	<ul style="list-style-type: none"> • Emerging-market growth 	<ul style="list-style-type: none"> • Availability of assets for acquisitions
		<ul style="list-style-type: none"> • Removal of trade and investment barriers 		
Challengers pursuing approach	Many			Few

Source: BCG analysis.



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european business transfor...



european business transformation



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About 21,800,000 results (0.30 seconds)

European Business Transformation Event 2013 | Business ...

<https://www.bta-online.com/.../european-business-transformation-event-2...>

Once again the **European Business Transformation** Event was a major success, and the BTA is thankful to have had such outstanding speakers and dedicated ...

[PPT] trends in business transformation executive european s...

www.nsp.ntnu.no/.../01-master-business-transformation-survey-final.ppt

On average, large Western **European** companies have undertaken seven **Business Transformation** projects over the last three years. **Business Transformation** ...

Business Transformation - Management Centre Europe

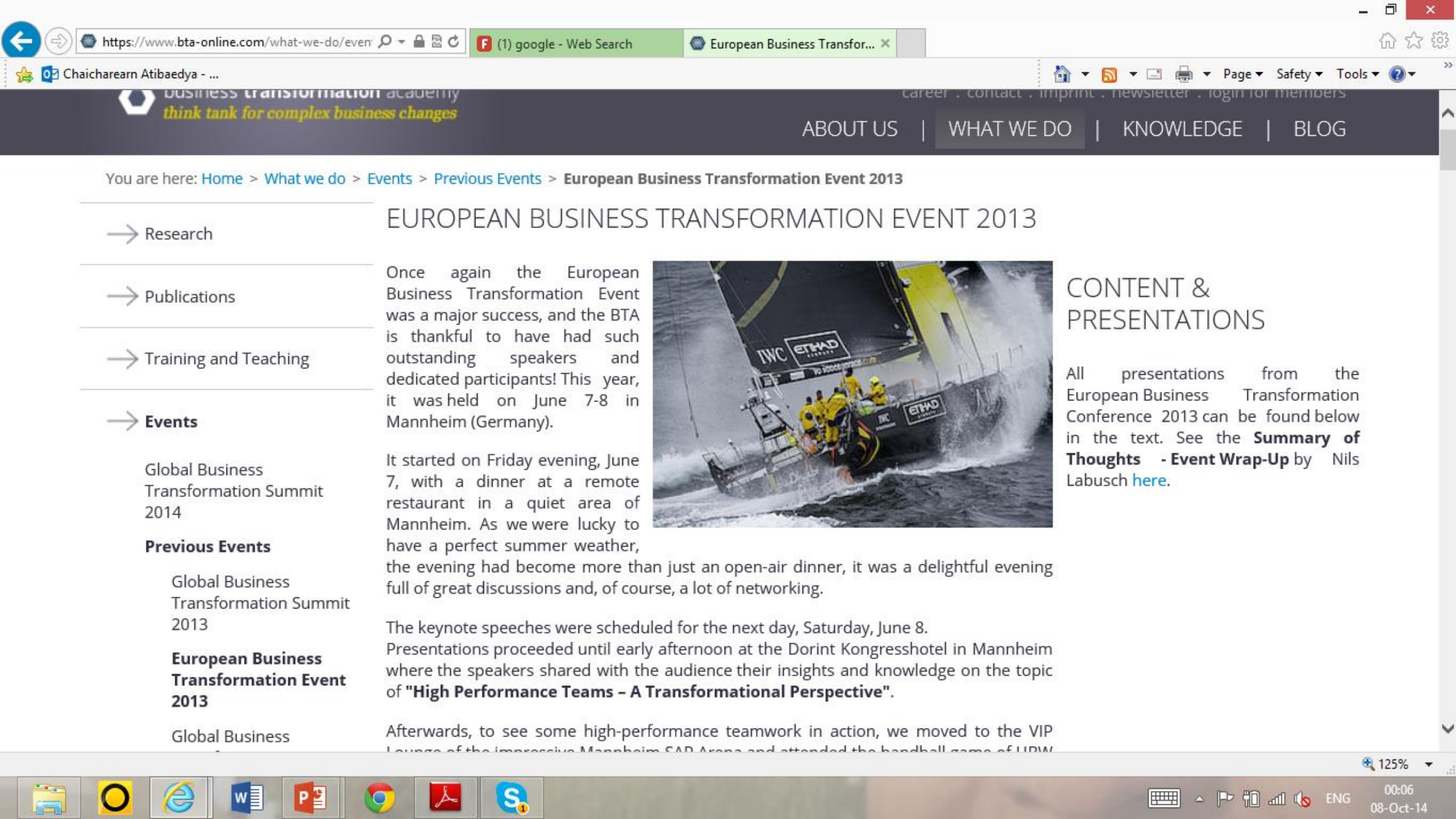
www.mce-ama.com/business-transformation/mce-10-step-approach/

MCE has developed a unique and effective enterprise-wide **Business Transformation** Framework. Our Senior Associates take into account your specific needs ...

Trends in Business Transformation 2000 | Capgemini

125%





You are here: [Home](#) > [What we do](#) > [Events](#) > [Previous Events](#) > **European Business Transformation Event 2013**

→ Research

→ Publications

→ Training and Teaching

→ **Events**

Global Business Transformation Summit 2014

Previous Events

Global Business Transformation Summit 2013

European Business Transformation Event 2013

Global Business

EUROPEAN BUSINESS TRANSFORMATION EVENT 2013

Once again the European Business Transformation Event was a major success, and the BTA is thankful to have had such outstanding speakers and dedicated participants! This year, it was held on June 7-8 in Mannheim (Germany).



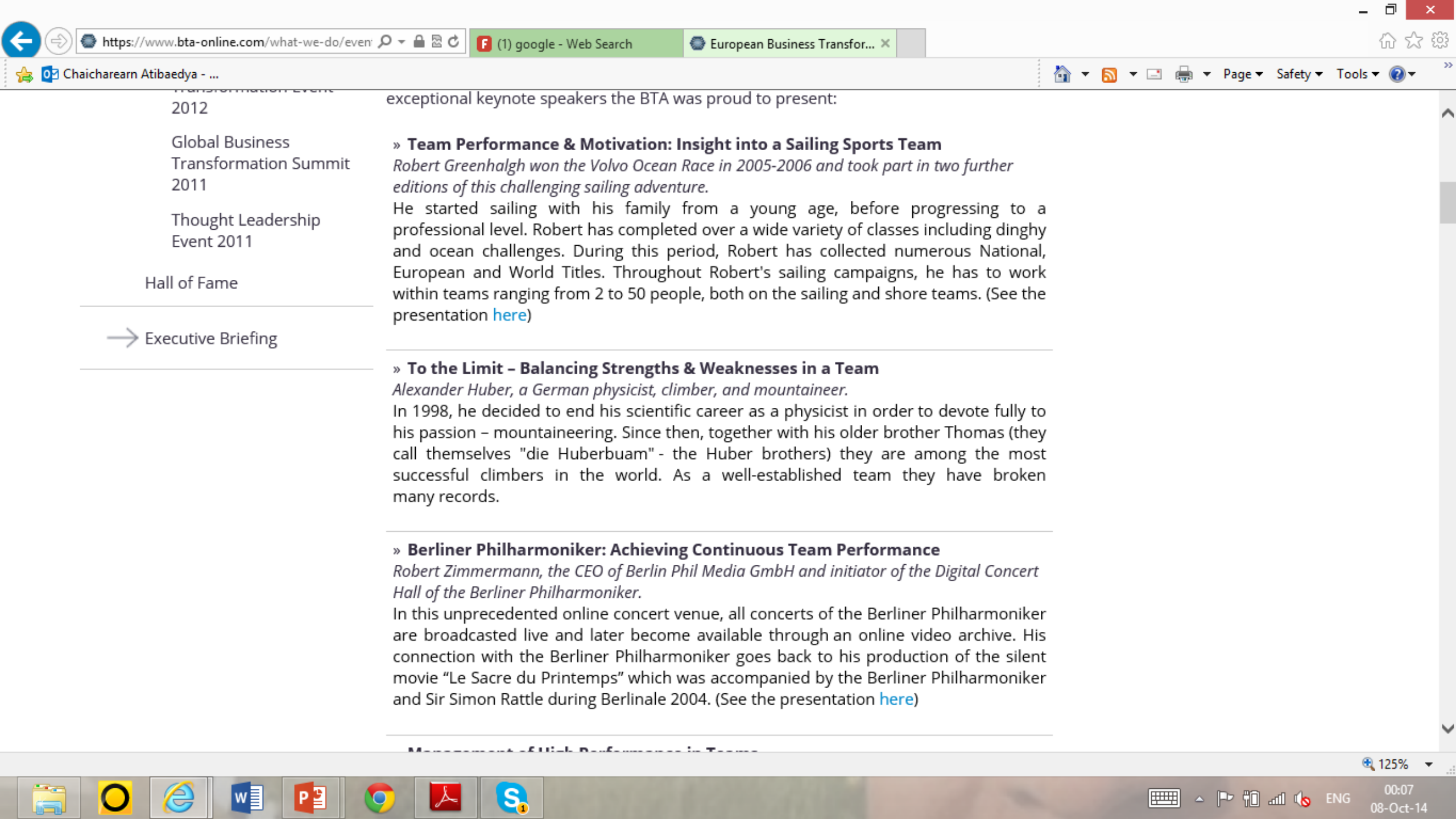
It started on Friday evening, June 7, with a dinner at a remote restaurant in a quiet area of Mannheim. As we were lucky to have a perfect summer weather, the evening had become more than just an open-air dinner, it was a delightful evening full of great discussions and, of course, a lot of networking.

The keynote speeches were scheduled for the next day, Saturday, June 8. Presentations proceeded until early afternoon at the Dorint Kongresshotel in Mannheim where the speakers shared with the audience their insights and knowledge on the topic of "**High Performance Teams - A Transformational Perspective**".

Afterwards, to see some high-performance teamwork in action, we moved to the VIP Lounge of the impressive Mannheim SAP Area and attended the handball game of URM

CONTENT & PRESENTATIONS

All presentations from the European Business Transformation Conference 2013 can be found below in the text. See the **Summary of Thoughts - Event Wrap-Up** by Nils Labusch [here](#).



- Chaicharearn Atibaedy - ...
- 2012
- Global Business Transformation Summit 2011
- Thought Leadership Event 2011
- Hall of Fame
- Executive Briefing

exceptional keynote speakers the BTA was proud to present:

» **Team Performance & Motivation: Insight into a Sailing Sports Team**
Robert Greenhalgh won the Volvo Ocean Race in 2005-2006 and took part in two further editions of this challenging sailing adventure.
 He started sailing with his family from a young age, before progressing to a professional level. Robert has completed over a wide variety of classes including dinghy and ocean challenges. During this period, Robert has collected numerous National, European and World Titles. Throughout Robert's sailing campaigns, he has to work within teams ranging from 2 to 50 people, both on the sailing and shore teams. (See the presentation [here](#))

» **To the Limit - Balancing Strengths & Weaknesses in a Team**
Alexander Huber, a German physicist, climber, and mountaineer.
 In 1998, he decided to end his scientific career as a physicist in order to devote fully to his passion - mountaineering. Since then, together with his older brother Thomas (they call themselves "die Huberbuam" - the Huber brothers) they are among the most successful climbers in the world. As a well-established team they have broken many records.

» **Berliner Philharmoniker: Achieving Continuous Team Performance**
Robert Zimmermann, the CEO of Berlin Phil Media GmbH and initiator of the Digital Concert Hall of the Berliner Philharmoniker.
 In this unprecedented online concert venue, all concerts of the Berliner Philharmoniker are broadcasted live and later become available through an online video archive. His connection with the Berliner Philharmoniker goes back to his production of the silent movie "Le Sacre du Printemps" which was accompanied by the Berliner Philharmoniker and Sir Simon Rattle during Berlinale 2004. (See the presentation [here](#))

Management of High Performance in Teams

Some key findings

On average, large Western European companies have undertaken seven Business Transformation projects over the last three years

Business Transformation has become a central way of working; however, less than one third of companies feel that they excel at it

Companies do well in the top-down dimension, but less so in the bottom-up dimension of Business Transformation

Implementation is by far the riskiest stage within the execution of a large-scale Transformation

Shortcomings in execution, and insufficient acceptance by company employees are the most important reason for Transformation failure

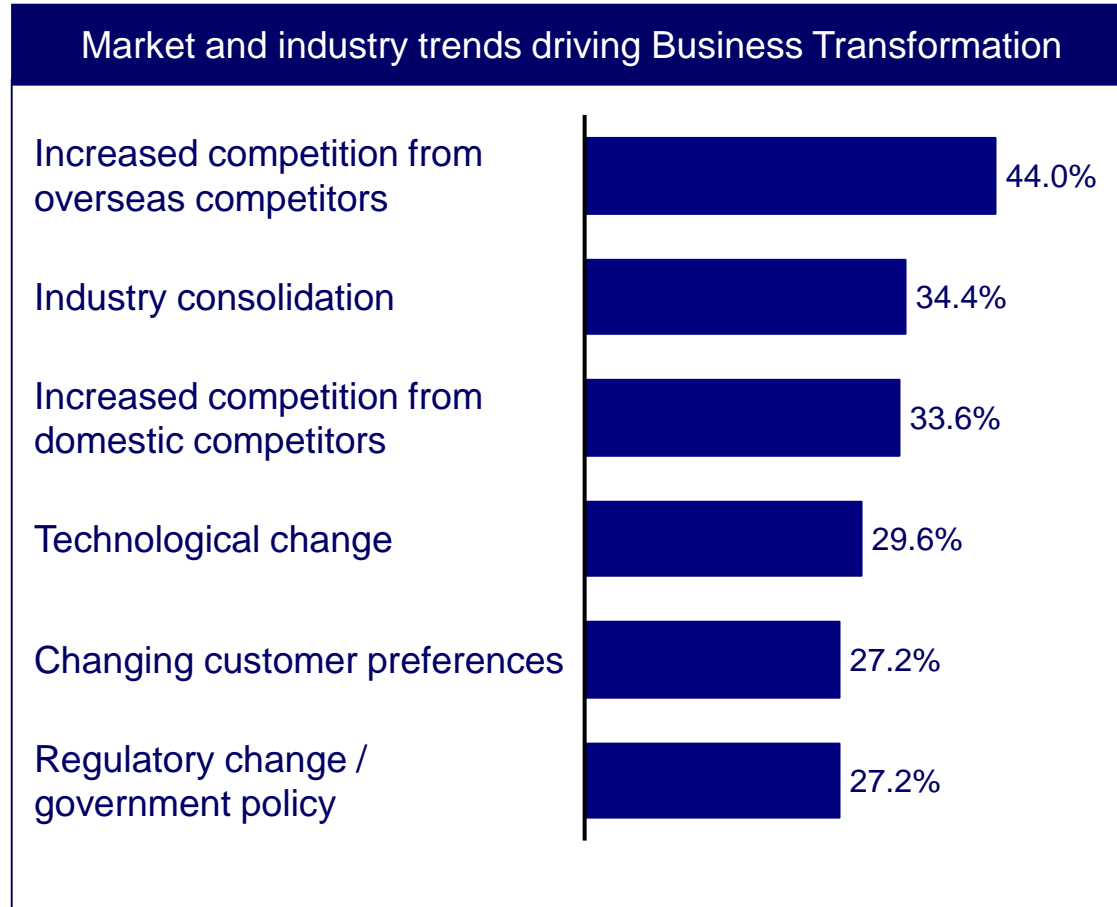
Ongoing support from senior management is by far the most important success factor for Business Transformation

What is our understanding of Business Transformation?

Business Transformation Programs are complex, performance-enhancing initiatives that cross functional and geographical boundaries within large organizations.

Business Transformation Programs bring about fundamental changes in the way a business is run; they need to integrate the dimensions of strategy, structure, processes, people and IT technology and therefore require a holistic approach.

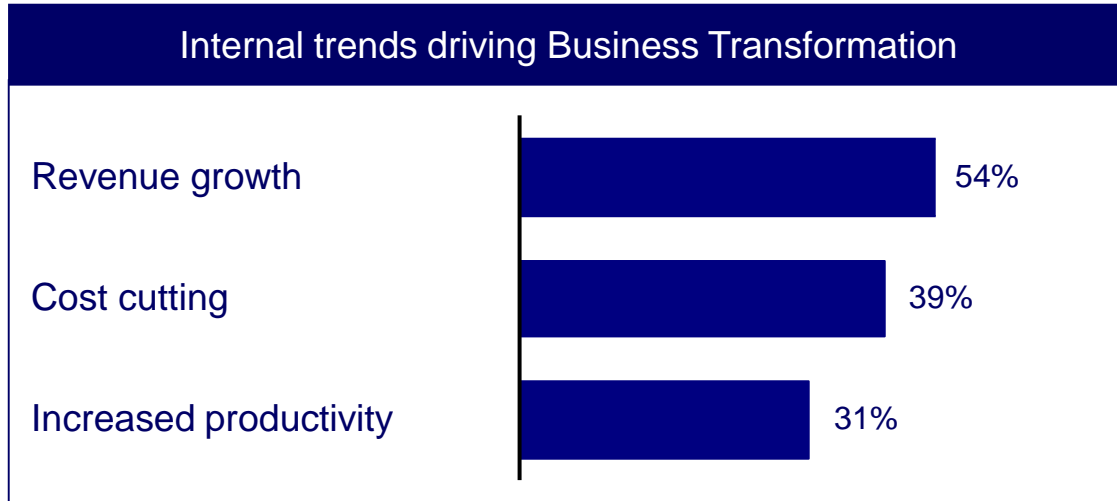
Competition and industry consolidation are the most important external trends driving Business Transformation



- Underlying trends
- Groundbreaking advances in information and communication technology, eroding the constraints of geography
 - Worldwide standardisation and harmonisation of business practices
 - Decrease of political and logistical barriers to cross-border trading

On average, large Western European companies have undertaken seven Business Transformation projects over the last three years.

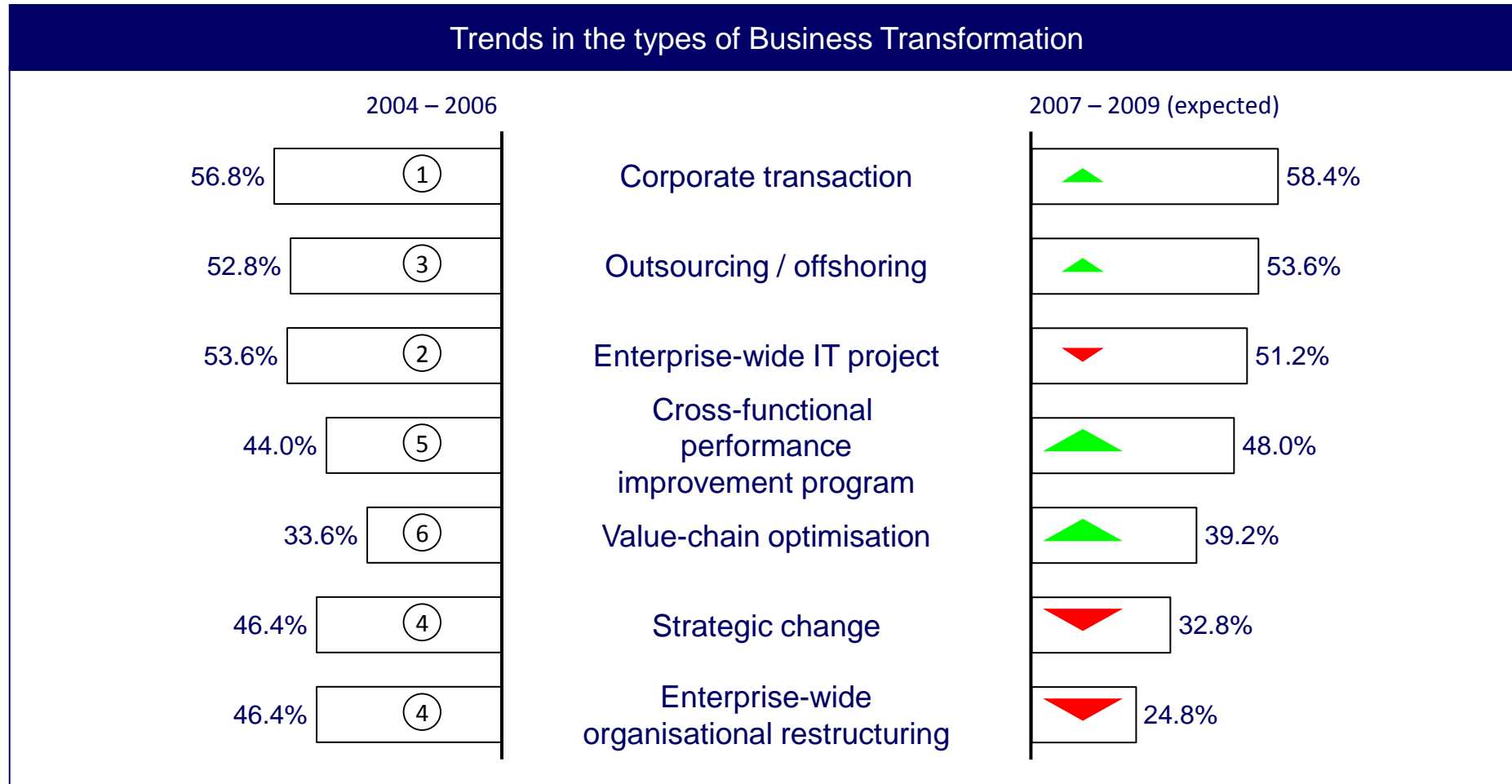
Growth has become the most important internal driver for Business Transformation



- Underlying trends
- Many large European companies have restructured, cut cost, and shed non-core businesses
 - These companies are now seeking to capitalize on their new strengths
 - Growth opportunities are typically seen outside of Western Europe

“Our deepening understanding of doing business in Asian cultures will make Mergers and Acquisitions a more compelling growth strategy for Western companies, while companies in India and China will increasingly see such transactions as a means to create globally competitive brands.” – Richard Scase, Prof. of Organizational Behaviour, University of Kent, UK

Corporate transactions and outsourcing / offshoring remain the most prevalent types of Business Transformation



Source: Capgemini / EIU Business Transformation European Survey

④ = Ranking 2004 - 2006

▲ = Trend

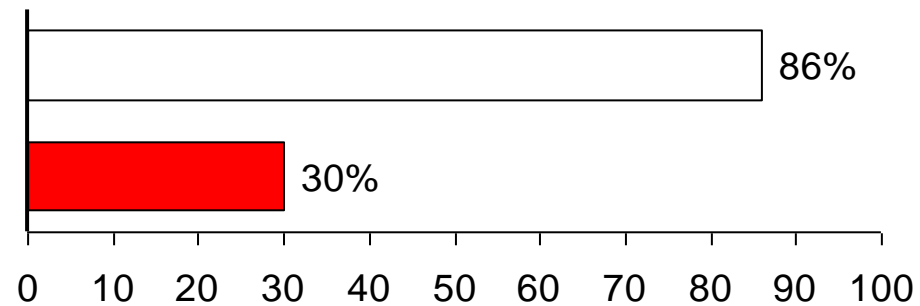
Business Transformation has become a central way of working; however, less than one third of companies excel at it

Trends in approaching Business Transformation

- Large-scale change is no longer a rare occurrence, increasingly it is the normal state of affairs
- Most respondents expect a slight increase in the number of Business Transformation Programs in the future
- Many companies undertake at the same time “breakthrough projects” which focus on the external competitive environment, and “performance improvement projects” which are more internally focused
- The mechanics of Transformation move away from individual projects towards an environment of constant change

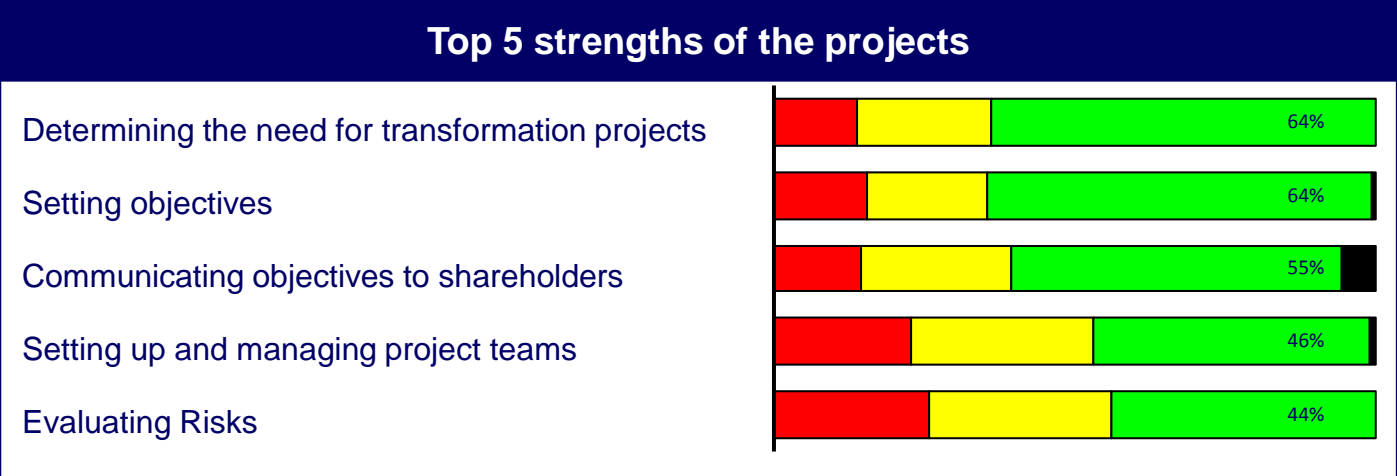
“Business Transformation has become a central way of working”

“Business Transformation is something our company excels at”

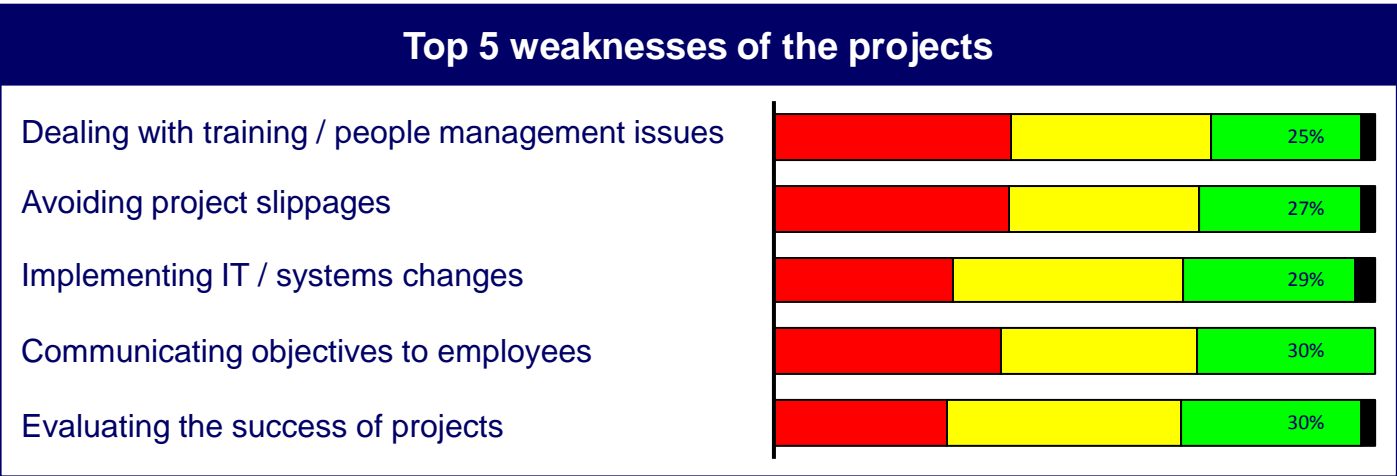


Source: Capgemini / EIU Business Transformation European Survey

Companies do well in the top-down dimension, but less so in the bottom-up dimension of Business Transformation



Companies do well in initiating projects in the top-down dimension ...

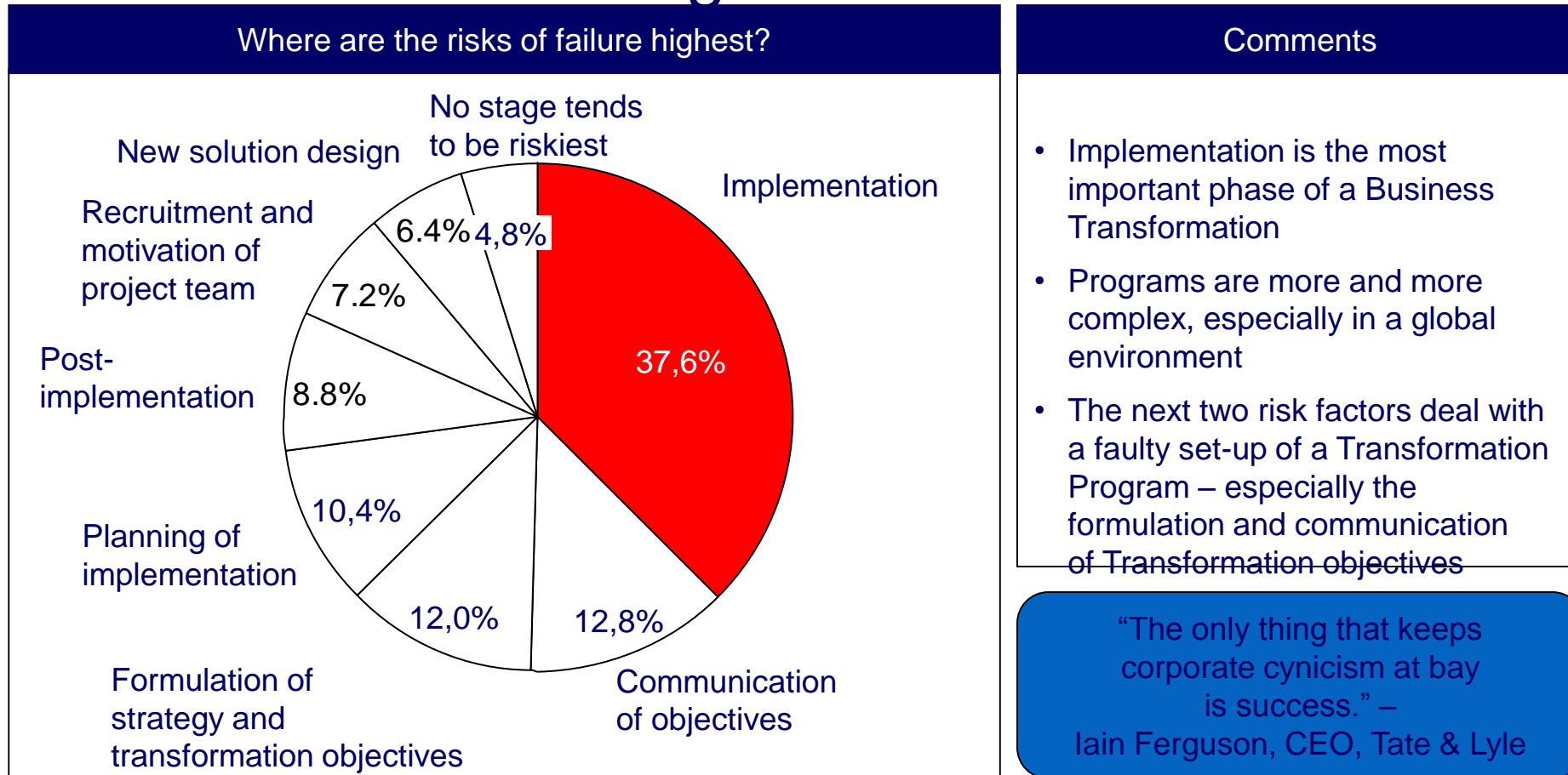


... but do not pay enough attention to the mechanics and processes that will ensure that the objectives are achieved bottom-up.

Source: Capgemini / EIU Business Transformation European Survey

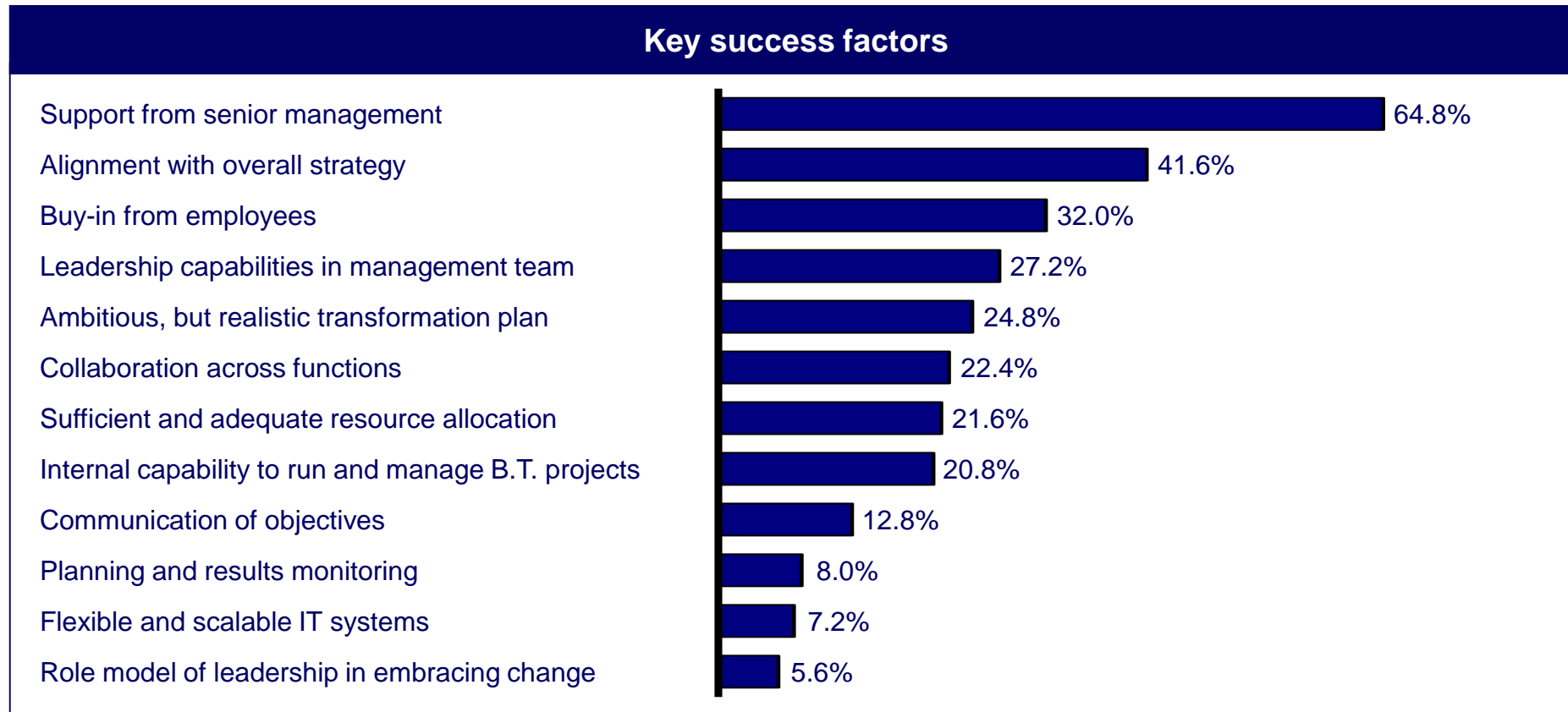
■ = Very weak / weak
 ■ = Average
 ■ = Strong / very strong
 ■ = Don't know

Implementation is by far the riskiest stage within the execution of a large-scale Transformation



Source: Capgemini / EIU Business Transformation European Survey

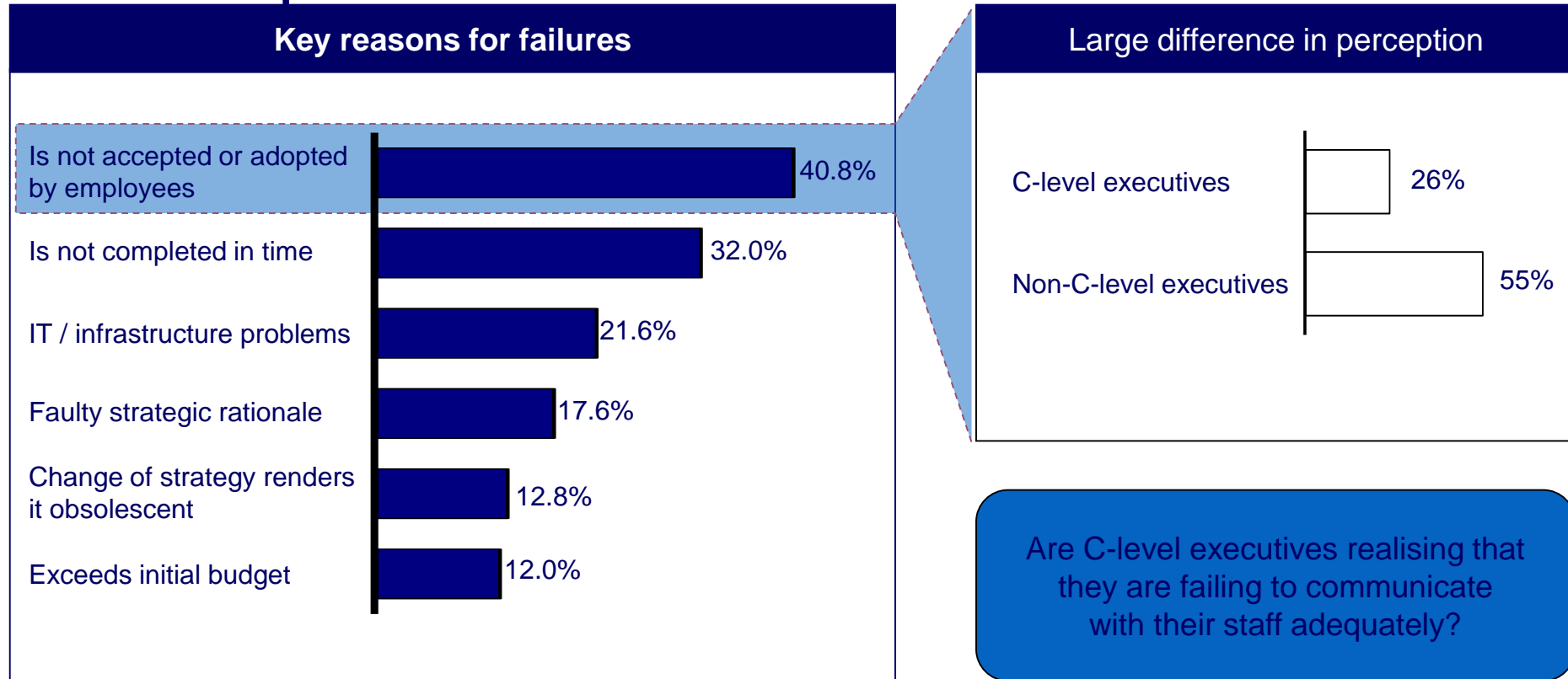
Ongoing support from senior management is by far the most important success factor for Business Transformation



Don't expect to sit in the back seat during implementation!

Source: Capgemini / EIU Business Transformation European Survey

Insufficient acceptance by company employees is the most important reason for Transformation failure



Source: Capgemini / EIU Business Transformation European Survey

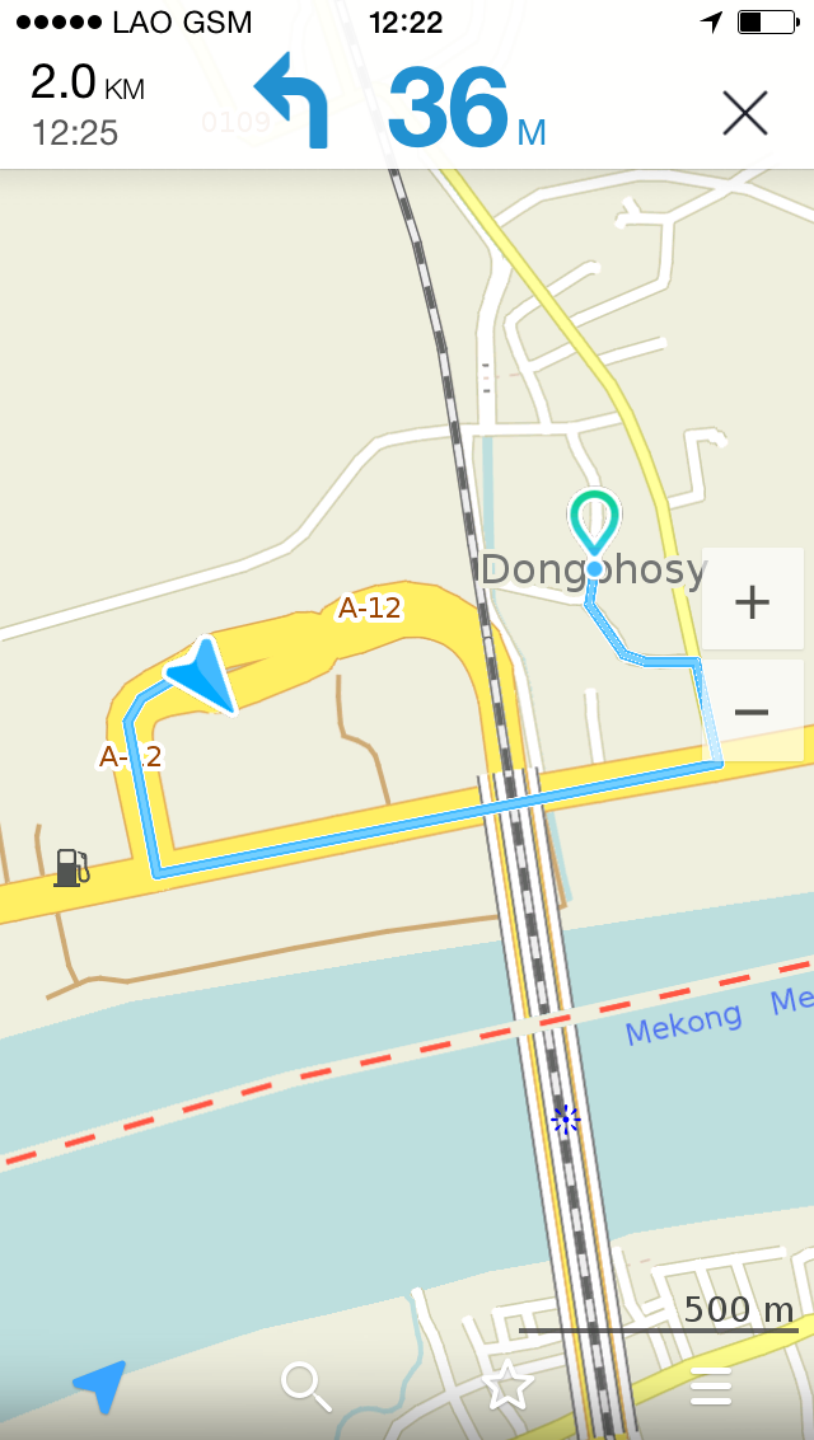




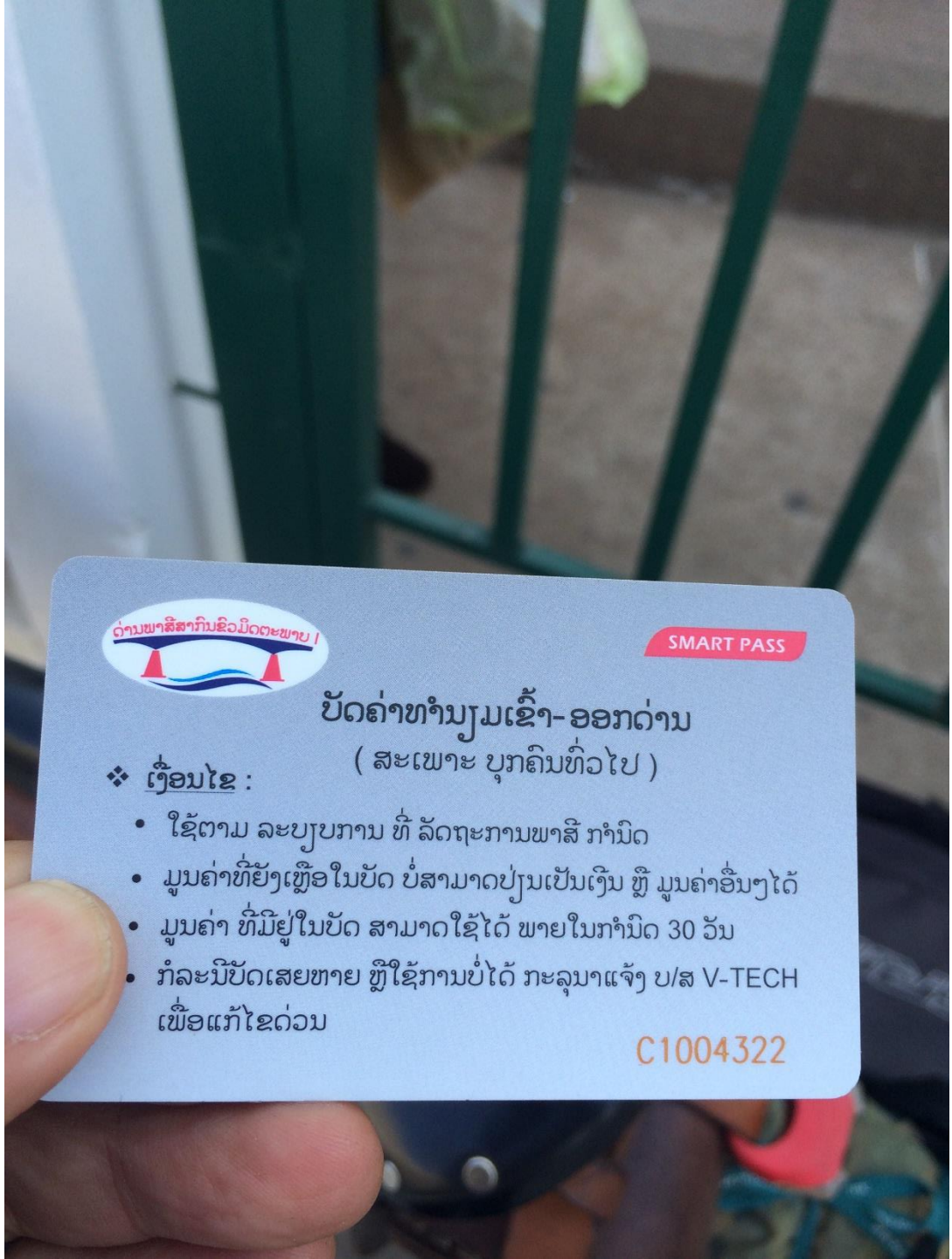
Zoom in







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DEC 2014

**A Bad Attitude
Is Like A Flat Tire
You Can't Go Anywhere
Till you change it**



**Immigration Department
LAO PDR**

Welcome to Lao PDR

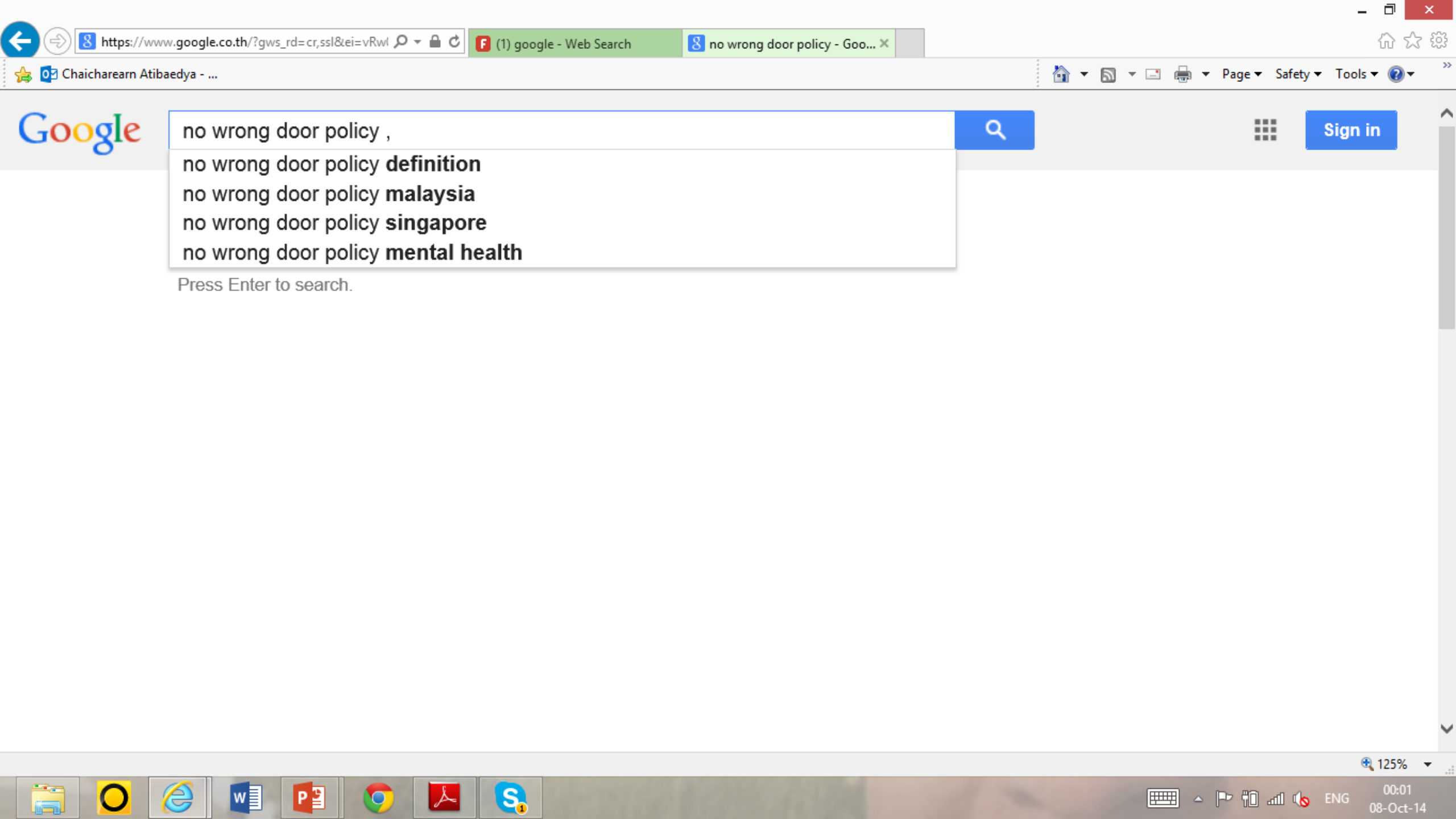


Beeline®



BUSINESS ARCHITECT

- BPR : AS IS
- INVOLVEMENT
- DESIGN 'TO BE '
- DATA CLEANSING



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no wrong door policy - Goo... x



no wrong door policy ,



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- no wrong door policy **singapore**
- no wrong door policy **mental health**

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Satu Perkhidmatan
Satu Penyampaian
'No Wrong Door Policy'

responsiveness
persekitaran mesra
berkomunikasi
undang-undang
berinteraksi

**KOMITMEN PERKHIDMATAN
AWAM MALAYSIA 2008**
Tan Sri Mohd Sidek Hassan
Ketua Setiausaha Negara

L15/7

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Precinct 4, 62100 Putrajaya
03-8872 2000 03-8890 5670
pro@agc.gov.my

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Performance Now!

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No Wrong Door
Policy!

BUSINESS
Value for Money!

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Together Mov
Towards AGC
Transformation

search... Retirement/Promotion/Transfer Order Online Services

English Bahasa Malaysia

AGC Portal » Government

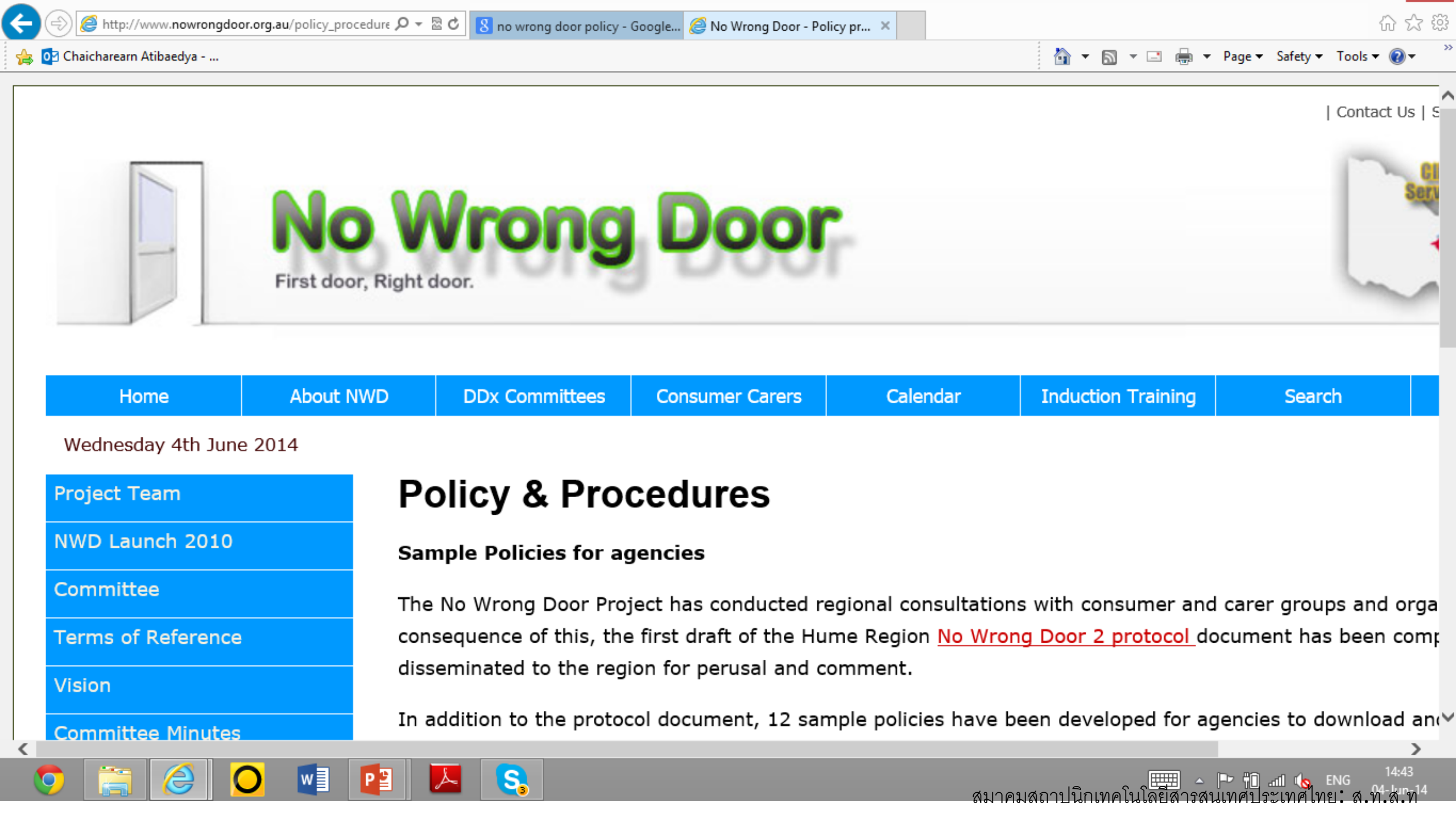
Retirement/Promotion/Transfer Order

Retirement/Promotion/Transfer Order List of
Management & Professional Officers and Support Group

- Management & Professional Group **NEW**

MANAGEMENT & PROFESSIONAL OFFICERS

- January
- February
- March
- April
- May



No Wrong Door

First door, Right door.



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- Consumer Carers
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Wednesday 4th June 2014

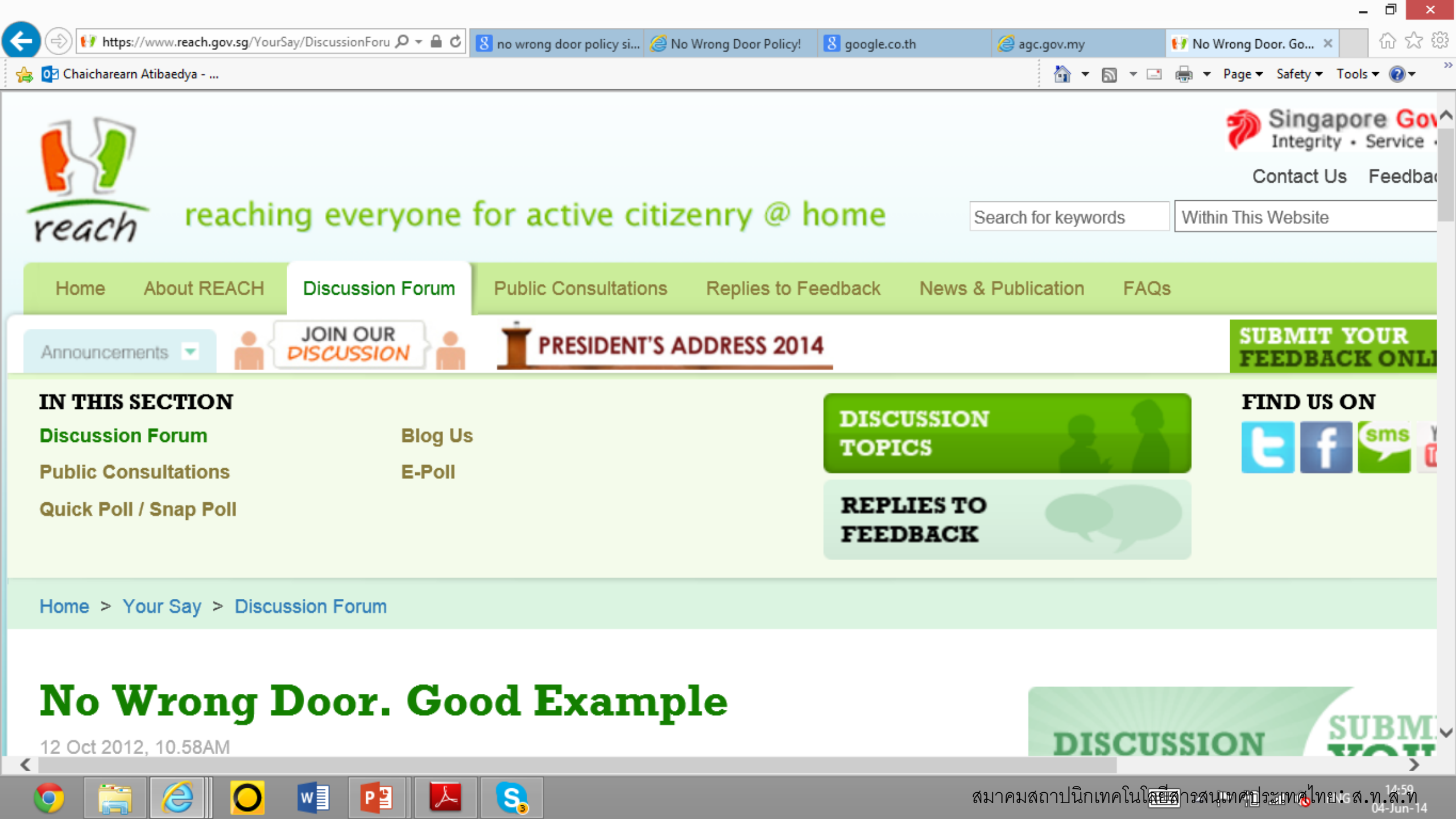
- Project Team
- NWD Launch 2010
- Committee
- Terms of Reference
- Vision
- Committee Minutes

Policy & Procedures

Sample Policies for agencies

The No Wrong Door Project has conducted regional consultations with consumer and carer groups and orga consequence of this, the first draft of the Hume Region [No Wrong Door 2 protocol](#) document has been comp disseminated to the region for perusal and comment.

In addition to the protocol document, 12 sample policies have been developed for agencies to download and



reaching everyone for active citizenry @ home



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No Wrong Door. Good Example

12 Oct 2012, 10.58AM

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No Wrong Door (e-learning) - Civil Service College

<https://www.cscollege.gov.sg/programmes/.../display%20programme.asp...>

Apr 16, 2014 - The "No Wrong Door" policy was introduced in 2004 as a means for the ... The Bus Industry in Singapore and the Bus Service Enhancement ...

The Singapore Public Service :: Developing A First Class ...

app.psd.gov.sg/data/Corporatebook/psfor21stcentury.html

In going the extra mile to serve Singapore and Singaporeans, we hope not only to meet their expectations, ... In 2004, the No Wrong Door policy was introduced.

No Wrong Doors Policy | Singapore Service Academy ...



Wallpaper



House



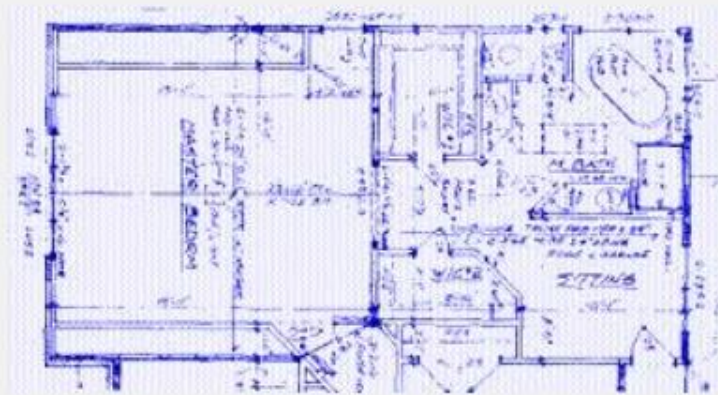
Simple

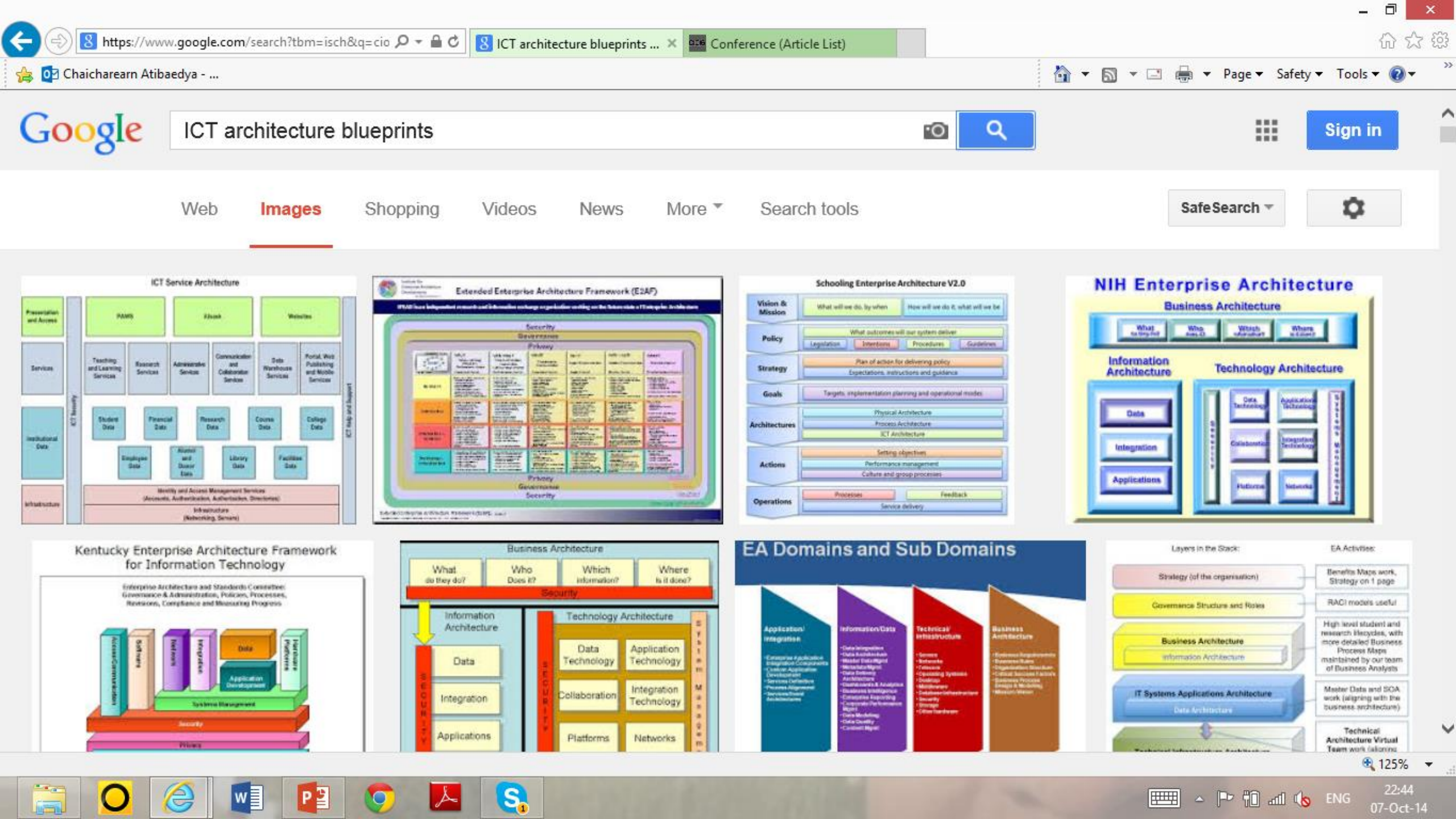


Skyscraper



Landscape

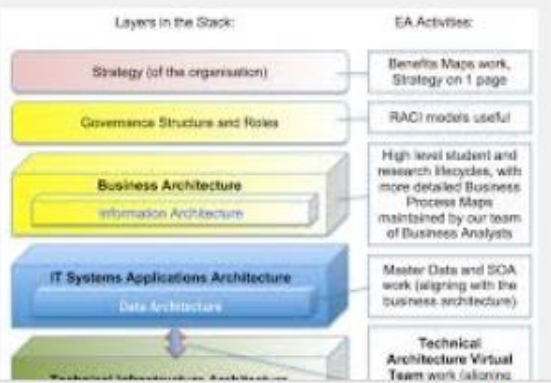
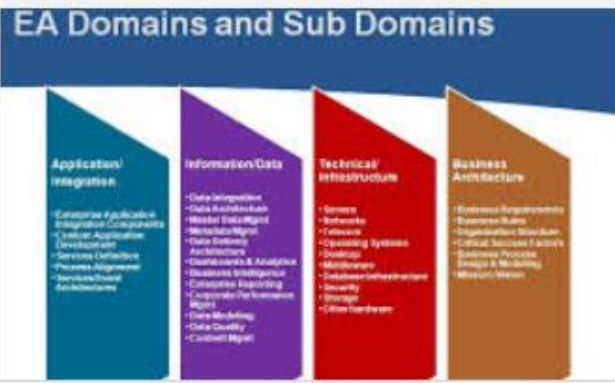
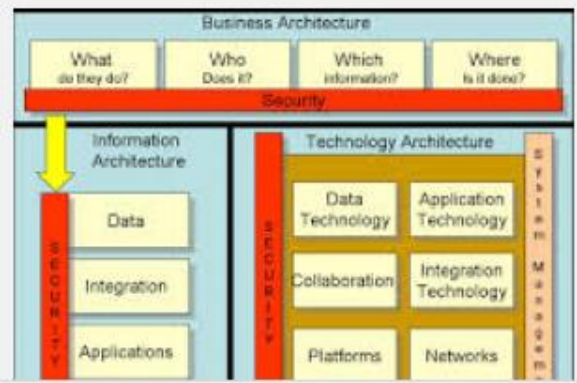
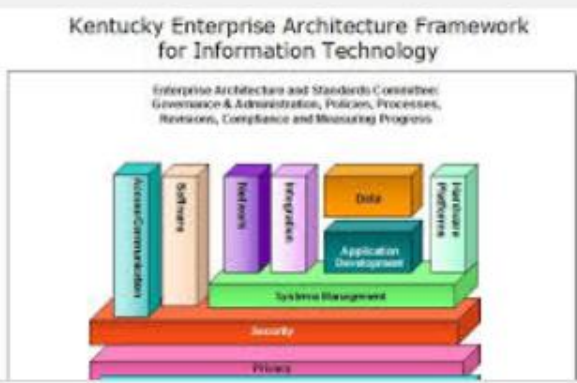
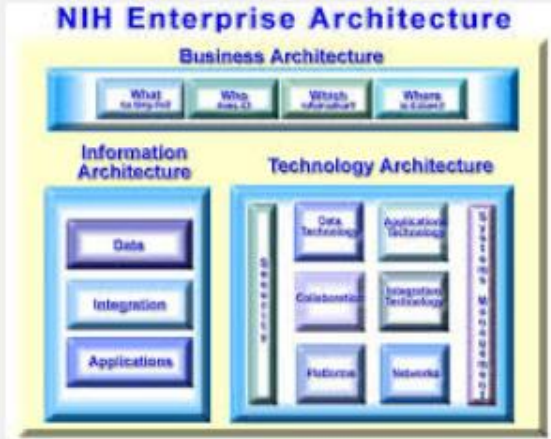
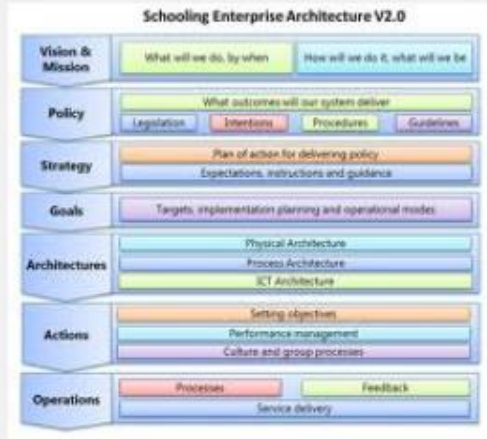
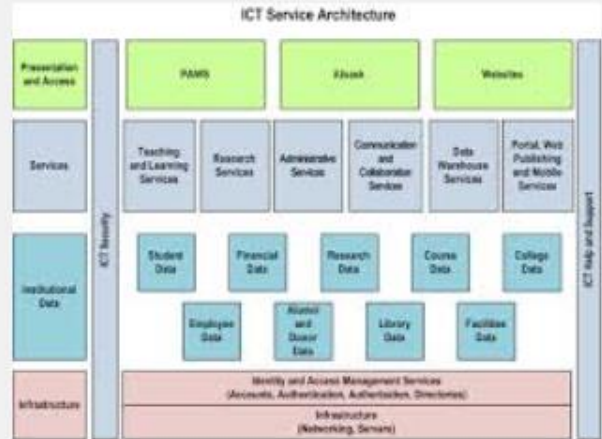




ICT architecture blueprints

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VDO : KOREAN EA

HOW TO START ?

- BEGIN THE CONVERSATION
- IMPROVE THE PROCESS
- GLANCE THE TECHNOLOGY
- TARGET FOR MISSION

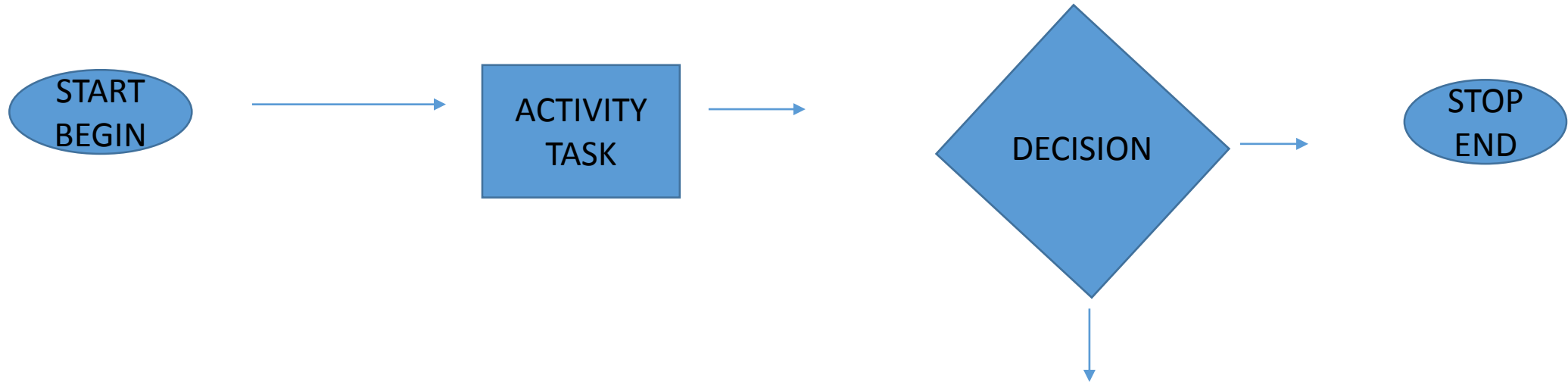
HOW TO DO ?

- Discuss & Brief Explain : THE PROCESS YOU WANT TO DRAW
- In Agree about : THE OBJECTIVE & TARGET OF THIS PROCESS
- Understand the Symbol : ALIGN THE TECHNOLOGY
- Assign your Team Rep. : DRAW THE FLOW

GUIDE : Use the 5W + 1H

- **WHAT ?** : process & its main tasks
- **WHY ?** : we need this process
- **WHICH ?** : one
- **WHO ?** : in charged , accountable , involved
- **WHERE ?** : apply , site
- **HOW ?** : clear , paper or "e"

SYMBOLS



JOB TO BE DONE

NOMALLY "one way "

YES/NO
TRUE/FALSE
YES GO / NO GO
PAPER / "e"
One way IN
Two ways OUT

WHY END ?

ADDITION GUIDELINE

- Should "KISS" keep it simple & straight forward
- Activity or Task : verbs+nouns : find cup , add water , stir the cup ...
- Each Activity or Task : Only 1 Person is in charged or Accountable
But she/he can have many Performs.
- Documented the PROCESSEs : take photo or

Very Clear เช่น must have blue print

มีการออกแบบทางสถาปัตยกรรม อย่างชัดเจน เช่น

- Business Architecture
- Security Architecture
- Data Architecture
- Application Architecture
- Technical Architecture

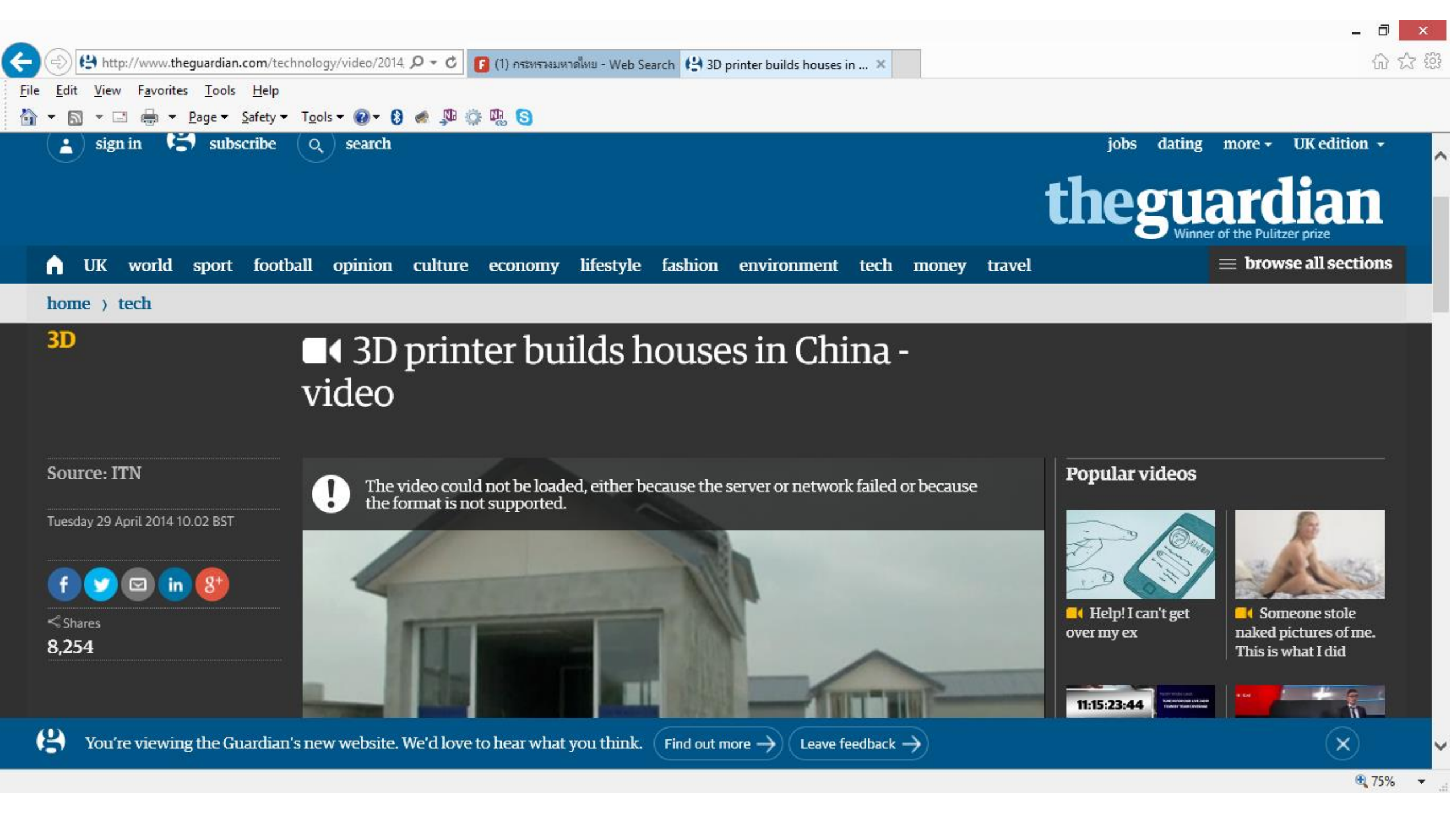
Gartner Top 10 Strategic Technology Trends

2015

- Computing Everywhere
- The Internet of Things (IoT)
- 3D Printing
- Advanced, Pervasive, Invisible Analytics
- Context-Rich Systems
- Smart Machines
- Cloud/Client Architecture
- Software-Defined Infrastructure and Applications
- Web-Scale IT
- Risk-Based Security and Self-Protection

2014

- Mobile Device Diversity and Management
- Mobile App and Applications
- The Internet of Everything
- Hybrid Cloud and IT as Service Broker
- Cloud/Client Architecture
- The Era of Personal Cloud
- Software Defined Anything
- Web-Scale IT
- Smart Machines
- 3D Printing



http://www.theguardian.com/technology/video/2014

(1) กรุงเทพมหานคร - Web Search 3D printer builds houses in ...



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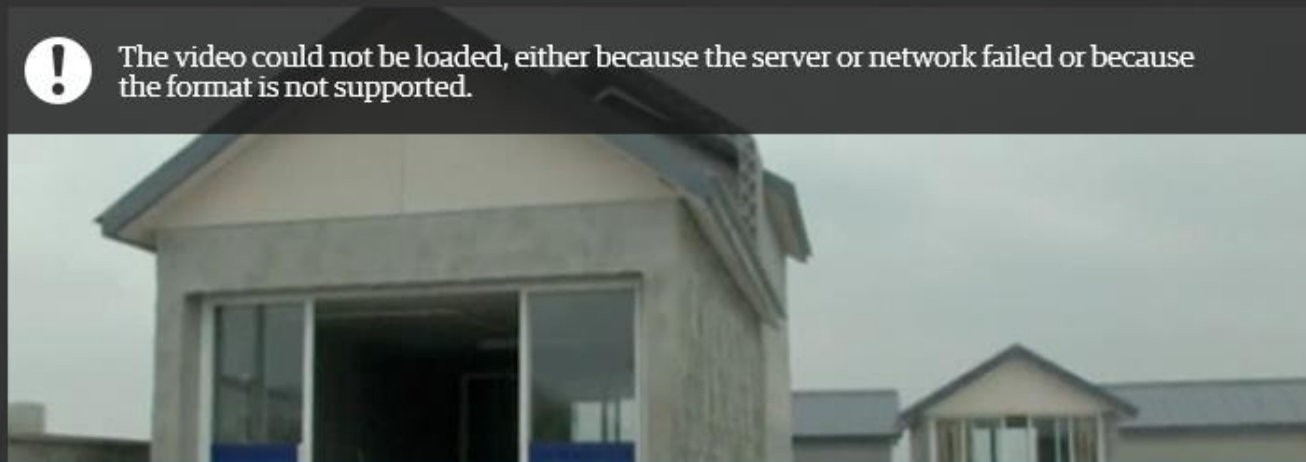
3D printer builds houses in China - video

Source: ITN

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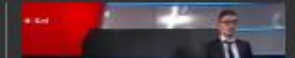
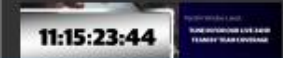
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ARCHITECTURE

Chinese company uses 3D printing to build 10 houses in a day

By [Loz Blain](#)
April 23, 2014

21 Comments
3 Pictures



Small home constructed from 3D-printed building blocks (Image: Winsun New Materials)
[Image Gallery](#) (3 images)

This small home may look plain, but it represents a significant achievement in rapid construction. A Chinese company has demonstrated the capabilities of its giant 3D printer by rapidly constructing 10 houses in less than 24 hours. Built from predominantly recycled materials, these homes cost less than US\$5,000 and could be rolled out en masse to ease housing crises in developing countries.

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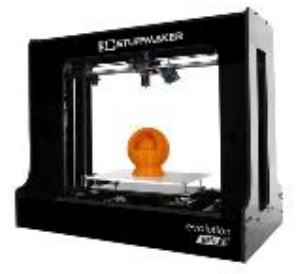
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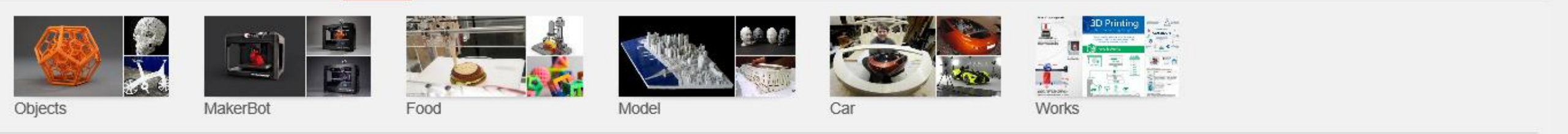


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- STUFF ABOUT US

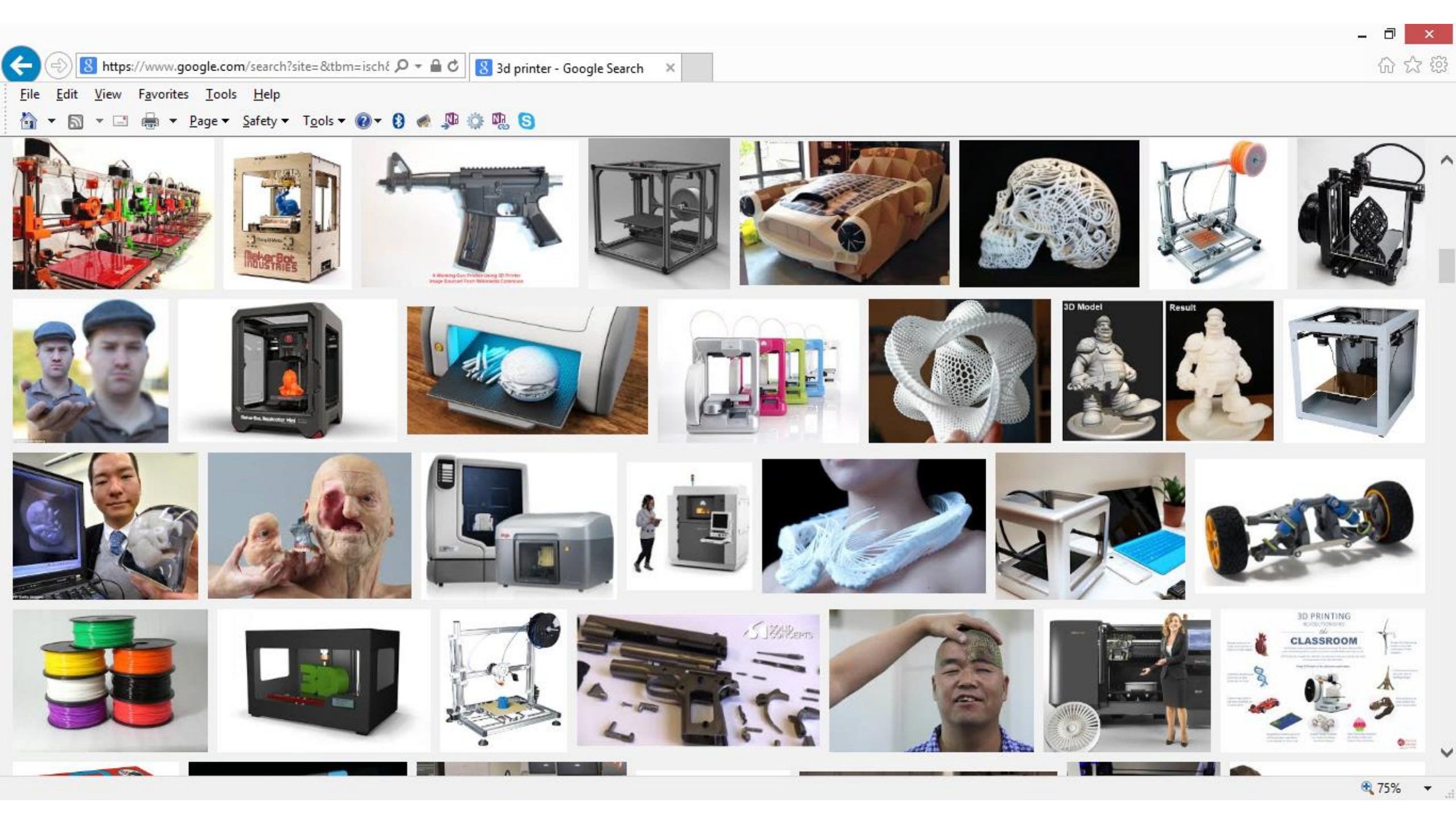
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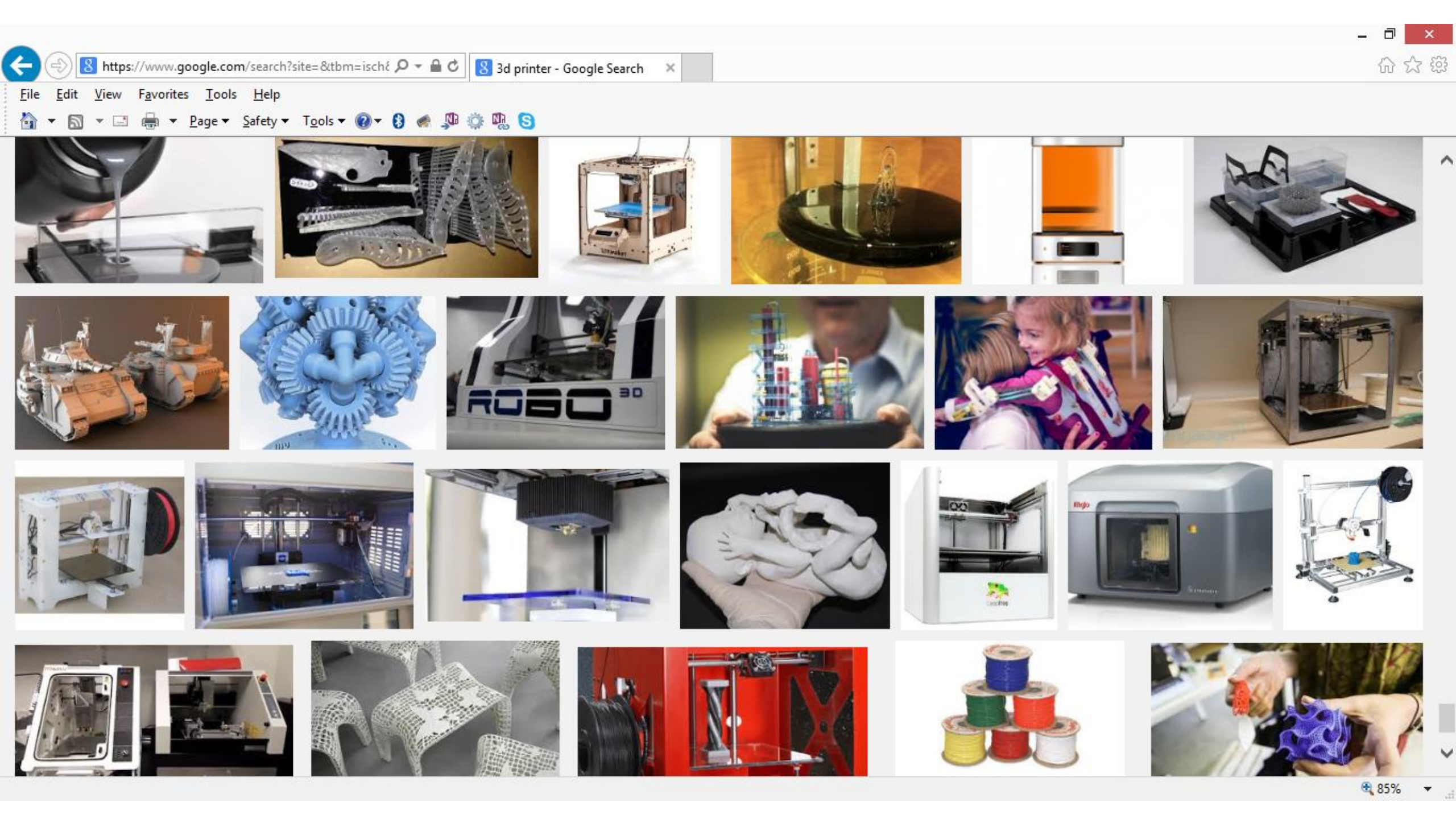
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- ✓ We are happy to teach you to become a 3D expert!
- ✓ 3D Stuffmaker is competitively priced
- ✓ We have the best and friendliest technical support
- ✓ No useless features or gimmicks
- ✓ Skype support & training
- ✓ Teamviewer Support

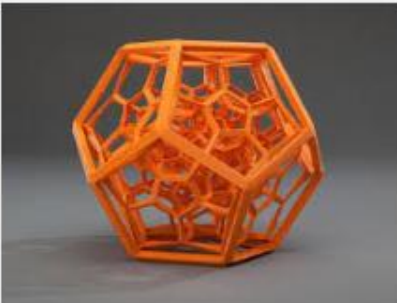


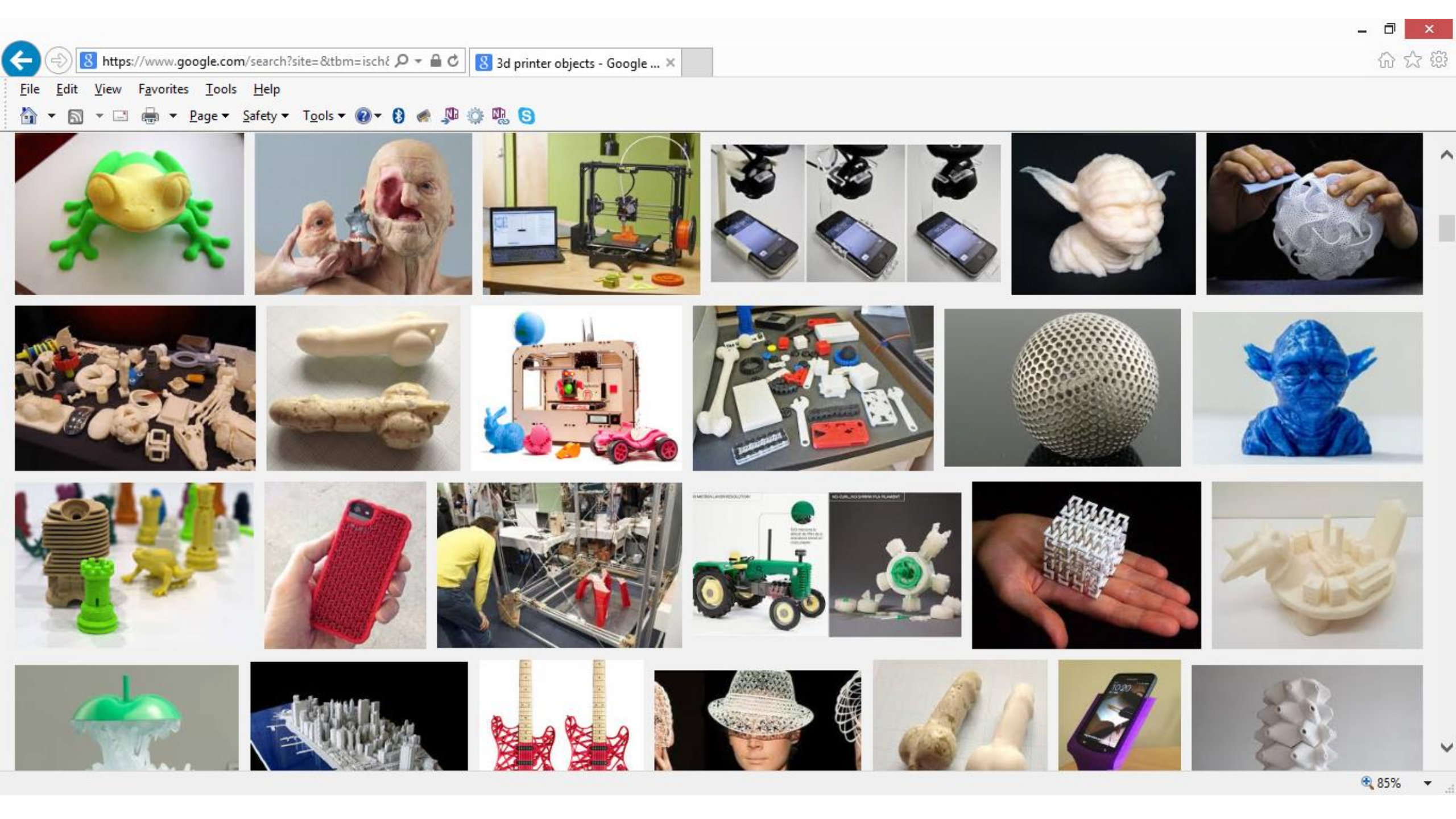








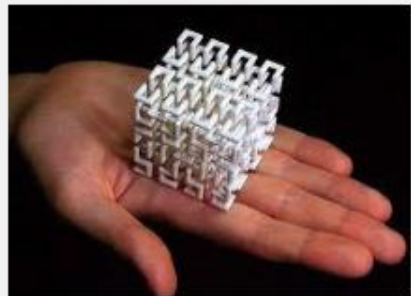


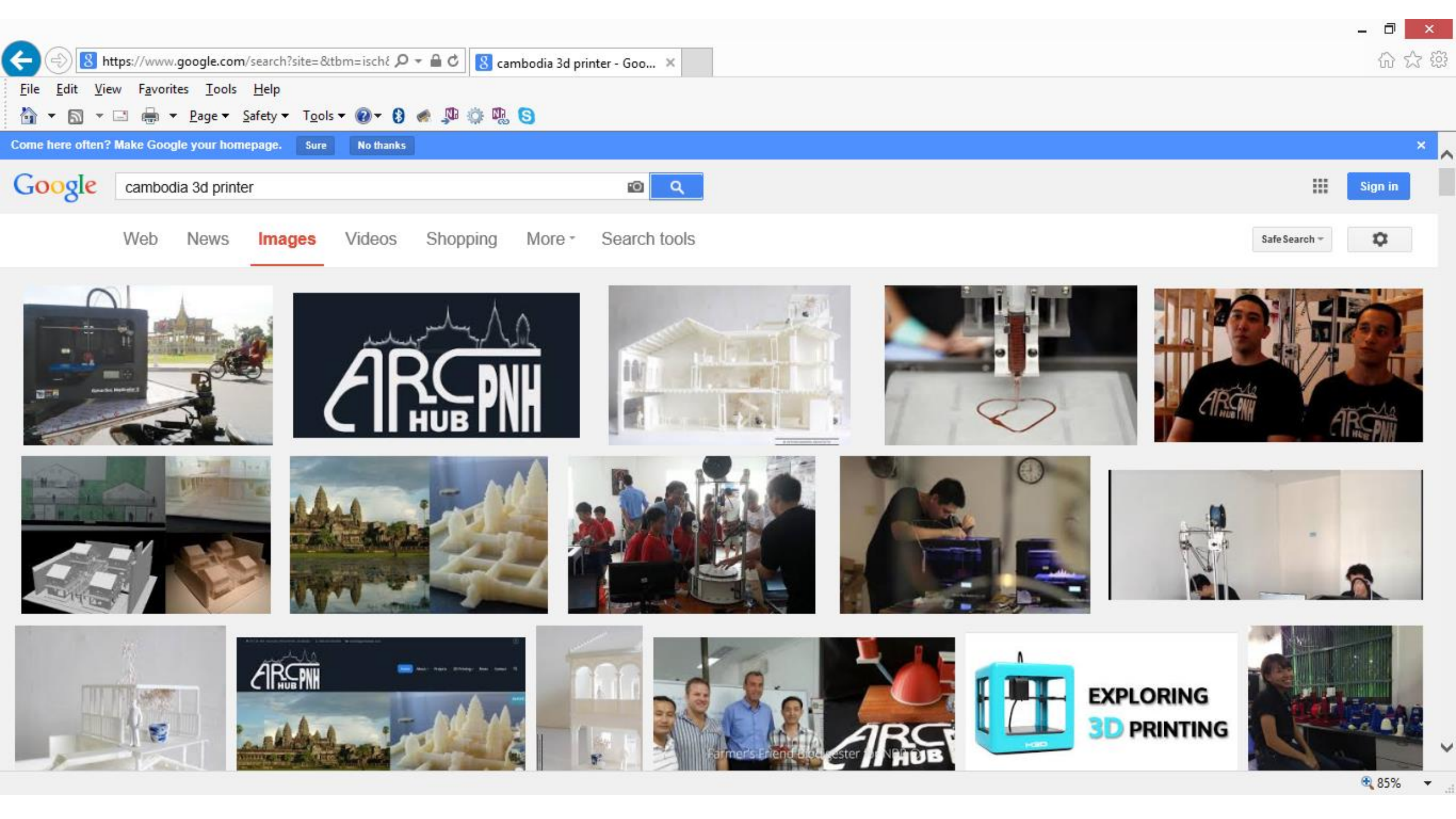


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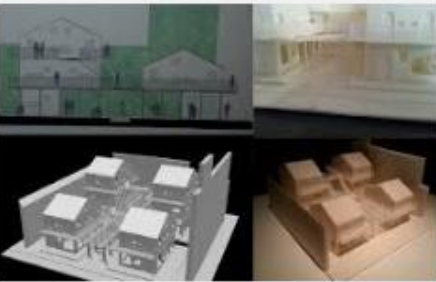
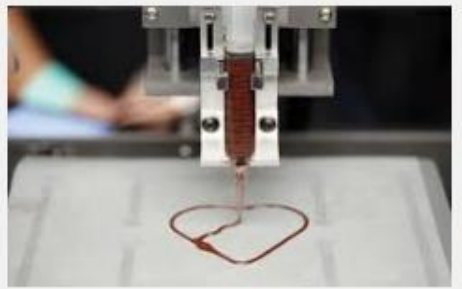
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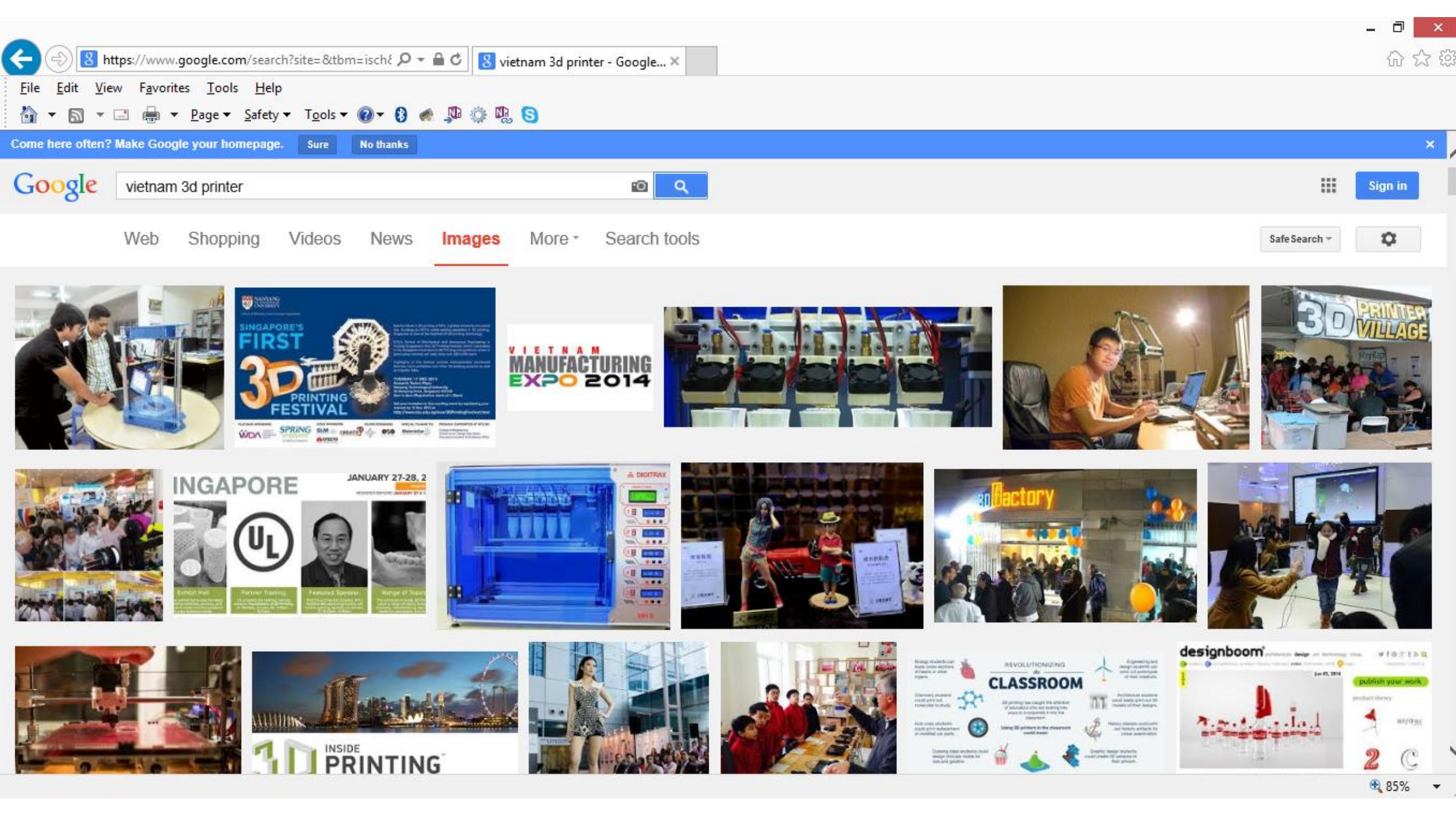
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3D Printing Mandibles for Hospitals in Vietnam - 3D Printing ...

3dprintingindustry.com/2014/10/25/3d-printing-mandibles-vietnam/

Oct 25, 2014 - 3D Maker, the lead **3D Printer** manufacturer in **Vietnam**, help out local hospitals by **3D Printing** mandible bones.

Made-in-Vietnam 3D printing machine to hit market in near ...

english.vietnamnet.vn/.../made-in-vietnam-3d-printin... VietNamNet Bridge

Oct 1, 2014 - VietNamNet Bridge – Two young men, Hoang Quang Liem and Truong Ngoc Quyen, have made a **3D printing** machine which scientists ...

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Vietnamese engineer builds low-cost 3D printer

tuoitrenews.vn/.../vietnamese-engineer-builds-lowcost-3d-printe... Tuổi Trẻ

Nov 9, 2014 - A **Vietnamese** doctorate holder has been

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Last update 09:37 | 01/10/2014



Made-in-Vietnam 3D printing machine to hit market in near future

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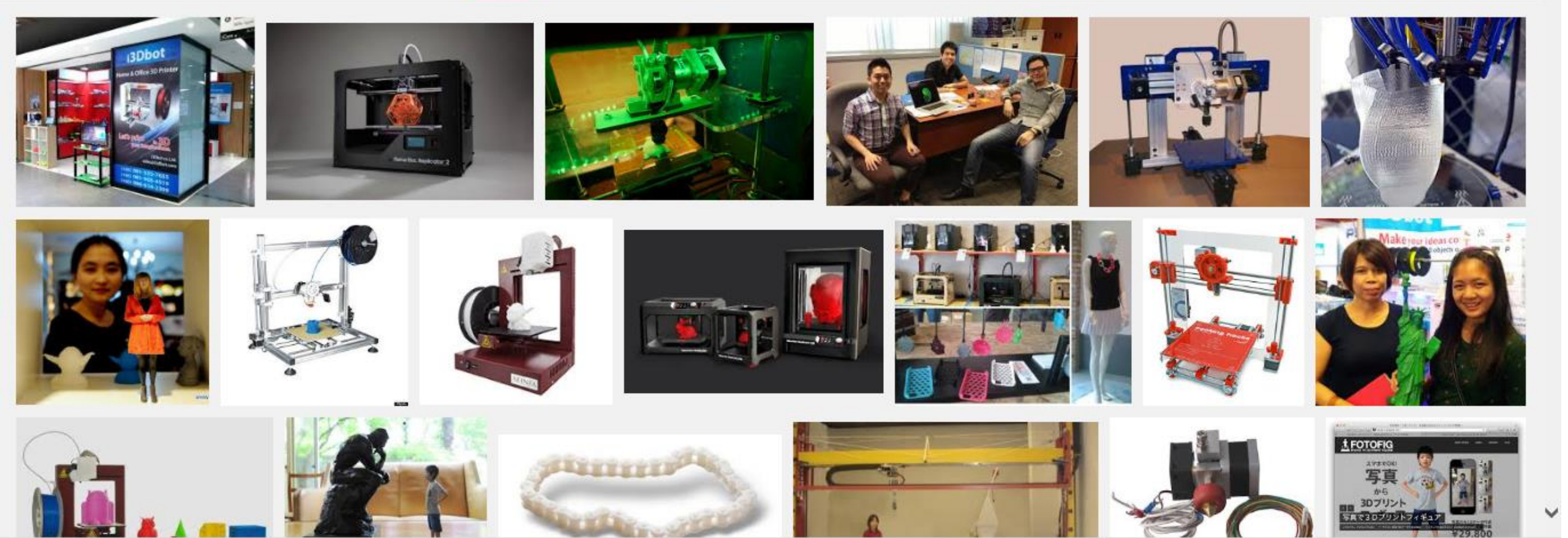
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HOME » 3DPRINTING

8 Great Things About 3D Printing



3D printing seems to fascinate everyone who hears about it. Here are our top ten reasons why 3D printing is so great. Printing working mechanisms Incredibly 3D printing is capable of printing fully working mechanisms in one single print with no post production assembly required. Mechanisms such as ball bearings, chains, even entire gearboxes can be printed in one go. The reason for this is the layer-by-layer method of manufacture method that 3D printers use. The CAD model of the mechanism is printed out on the machine. For where there...

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Drag to rotate

Non-printable colors [Why?](#) [Color Tips](#)

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My Colors: ● ●

My Images, Clip-Art & Messages: 0 Images, 0 Clip-Art, 0 Messages

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2. Add Message

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1

Click on any candy to ZOOM

Popular Messages

OUR RAD GRAD WITH HONORS!

CHAI PIM

Select Font

Comic Sans

Selecting a new font will update fonts of all messages.

Longer messages will print smaller. Messages in all capital letters are not recommended.

Add

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13 ม.ค. 2558 05:00		34.96	26.58	27.90	25.18	22.08	26.09		29.09		12.50
16 ม.ค. 2558 05:00		34.36	25.98	27.30	24.58	21.88	25.49		28.49		12.50
24 ม.ค. 2558 05:00		33.96	25.58	26.90	24.18	21.68	25.09		28.09		12.50
31 ม.ค. 2558 00:01		33.96	25.58	26.90	24.18	21.68	25.09		28.09		13.00

*ราคาที่เปลี่ยนแปลงจะเป็นตัวเข้ม

ทั้งหมด 6 รายการ

Tech to Biz

M2M

seamless

ICT SAFETY



ICT SECURITY



ความปลอดภัย ความมั่นคง : มาเป็นอันดับแรก

- เมื่อให้ความสำคัญแล้ว เข้าใจแล้ว ต้องบริหาร
- ต้องลงทุน (ปกติ **3%-7%** ของงบประมาณไอที)
- การบริหาร : มี/ให้ความรู้ ; คิด/ทำ ต่อเนื่อง ; คบหาผู้รู้

- **MEASURED**
- **MONOTOR**
- **MITIGATE**



สอนลูกหลาน
ให้ความสำคัญ
ทำความเข้าใจ "ฉลาก"
LABEL
???????????

ยาก
แต่..ต้องเริ่มที่เราก่อน

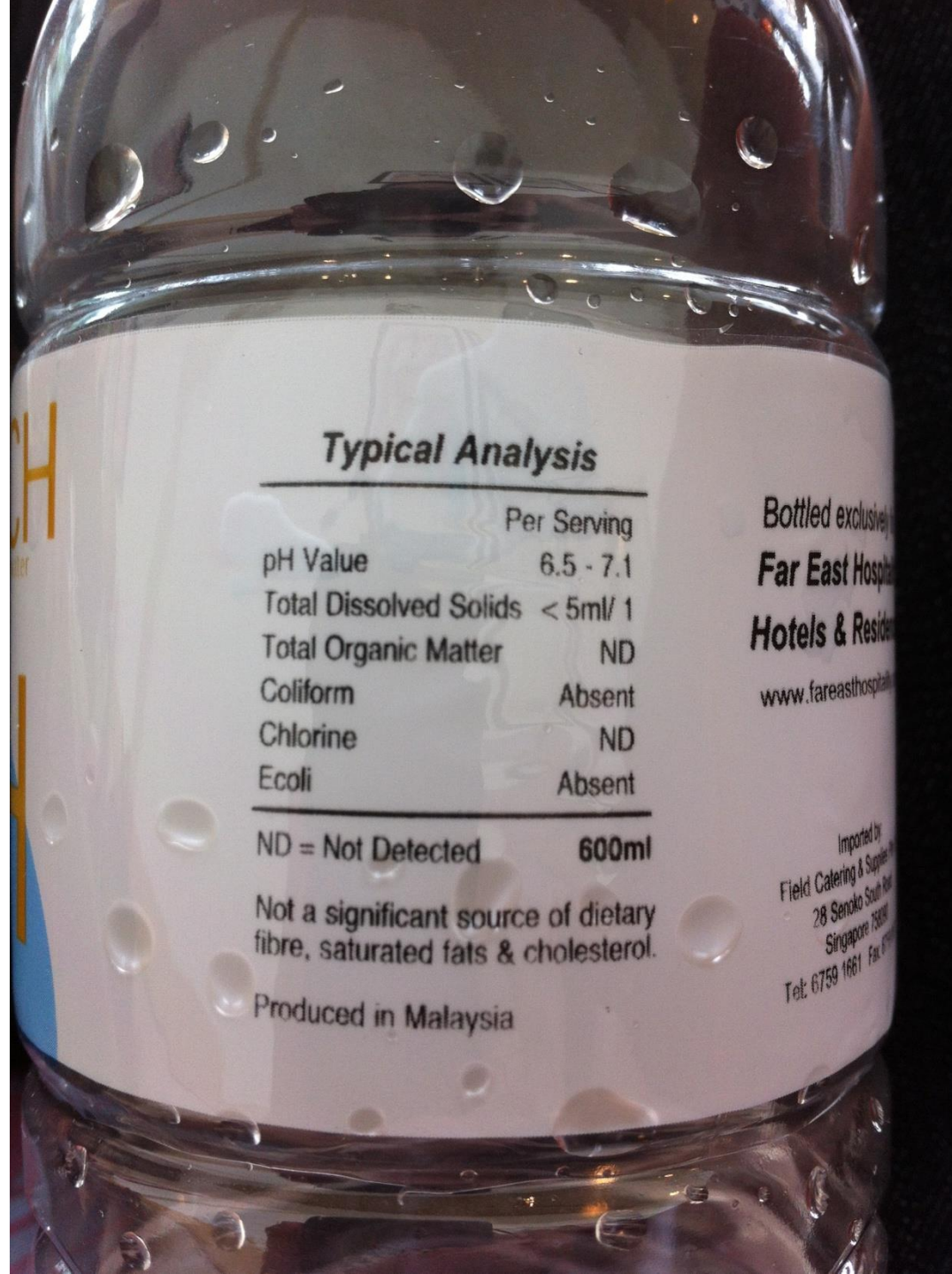


น้ำขวด ขายในอเมริกา

ฉลาก ประกาศว่า

เอามาจากน้ำสาธารณะ

น้ำมากรองๆ ด้วยวิธี



Typical Analysis

	Per Serving
pH Value	6.5 - 7.1
Total Dissolved Solids	< 5ml/ 1
Total Organic Matter	ND
Coliform	Absent
Chlorine	ND
Ecoli	Absent

ND = Not Detected **600ml**

Not a significant source of dietary fibre, saturated fats & cholesterol.

Produced in Malaysia

Bottled exclusively by
Far East Hospital
Hotels & Residences
www.fareasthospital.com

Imported by
Field Catering & Supplies
28 Senoko South Drive
Singapore 758901
Tel: 6759 1661 Fax: 6759 1662

ตัวอย่าง

ฉลาก ข้างขวดน้ำของ มาเลย์

ทำให้ความกระจ่าง

ผลิตภัณฑ์ให้ ประชาชน รับประทาน

ทำให้ผู้ผลิต มีความรับผิดชอบมากขึ้น



ใครผลิต
ผลิตเมื่อไร วันหมดอายุ
แหล่งน้ำ มาจากไหน

Importer:
Wanin Industries Pte. Ltd.
58, Senoko Road, Singapore 758121
Tel: (65) 62535888 Fax: (65) 625988
enquiries@pereoocean.com
www.pereoocean.com

Bottled By:
Ocean Mineral Water (M) Sdn. Bhd.

Location of the Source:
Lot 690, Jalan Sungai Tiram
81800 Ulu Tiram, Johor, Malaysia
Tel : (JB) 07-8611268 / (KL) 03-5634
Type of Source : Underground Water

Product Of Malaysia

Nutritional Facts
Servings per package: 1
Serving size: 500 ml (1 Bottle)

ประกอบด้วย
สารอะไรบ้าง

	Per servings	Per 100 ml
Energy	0 kcal*	0 kcal*
Protein	0 g	0 g
Total Fat	0 g	0 g
- saturated fat	0 g	0 g
Cholesterol	0 mg	0 mg
Carbohydrate	0 g	0 g
Dietary fibre	0 g	0 g
Sodium	13.0 mg	2.6 mg

Composition in mg/litre (approximately)

Calcium	30.3	Potassium	5.3
Magnesium	1.0	Sodium	26.1
Chloride	26.0	Sulphate	7.3
Bicarbonate	80	TDS	100
pH	7.0		

* 1 kcal = 4.2 kJ
Mineral content may vary due to natural causes.

Net Content : 500ml

น้ำขวดเวียดนาม ก็ระบุส่วนประกอบของน้ำ





ຈຸລາກນໍ້າຂວດ

ຄາວ



ສະຫວັນນໍ້າທົບ

ນໍ້າດື່ມກາ ນາງຟ້າ
ຜ່ານລະບົບ ລີເວີໂອສະໂມສິດ
ແສງອຸນຕຣາໂວໂອເລັກແລະ ໂອໂຊນ
ຜະລິດໂດຍ

ໂຮງງານນໍ້າດື່ມ ທ່ານສົມເພັດ
ບ້ານລັດຕະນະລັງສີເໝືອ ເມືອງຄັນທະບູລີ
ແຂວງສະຫວັນນະເຂດ

ໂທ : (41) 213555, ມືຖື : (20) 5540068

ໂທລະສັບ 006663
ຂະໜາດໂຕນ 1.5 ລິຕຣ໌

SAVANNAMTHIP
DRINKING WATER

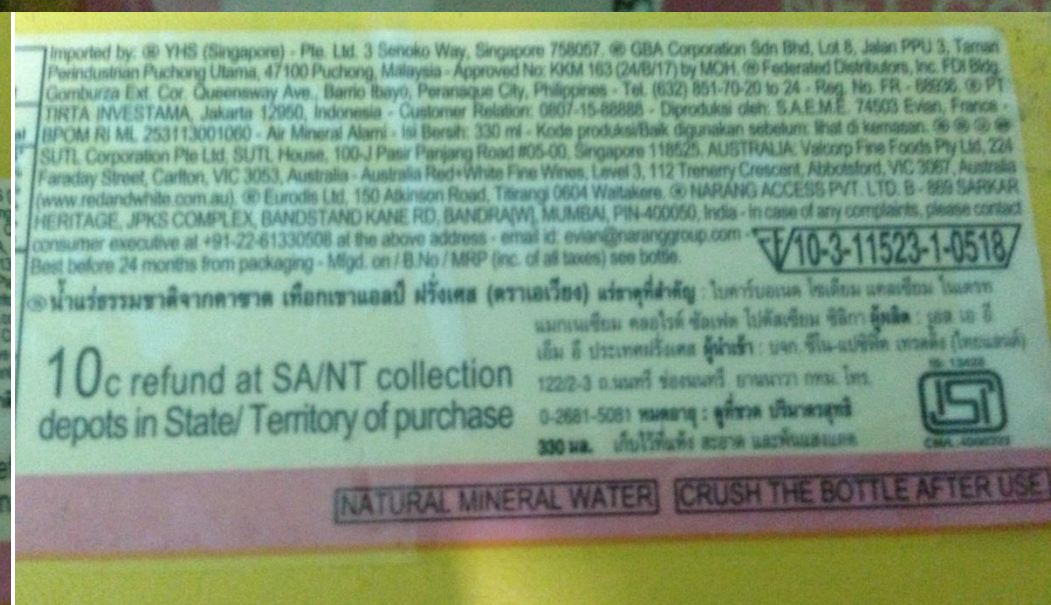
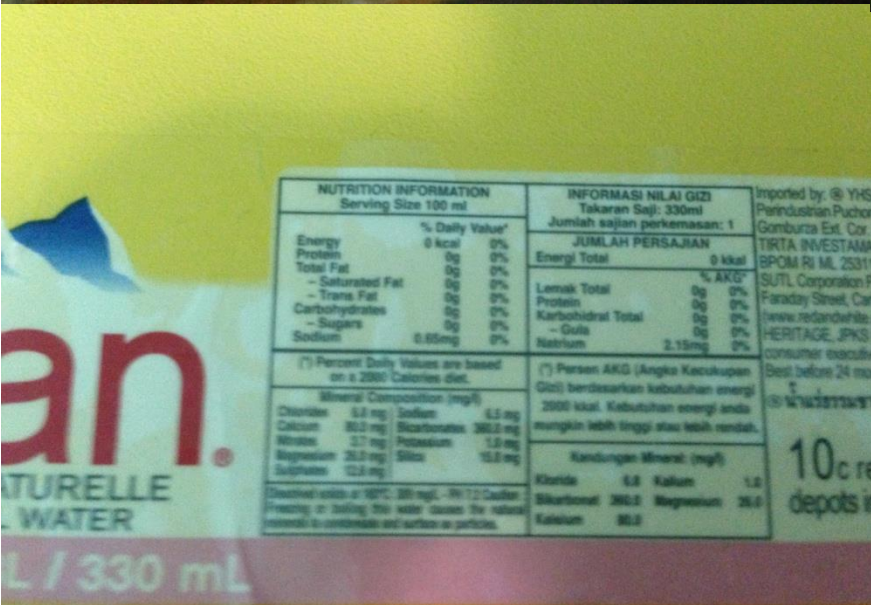
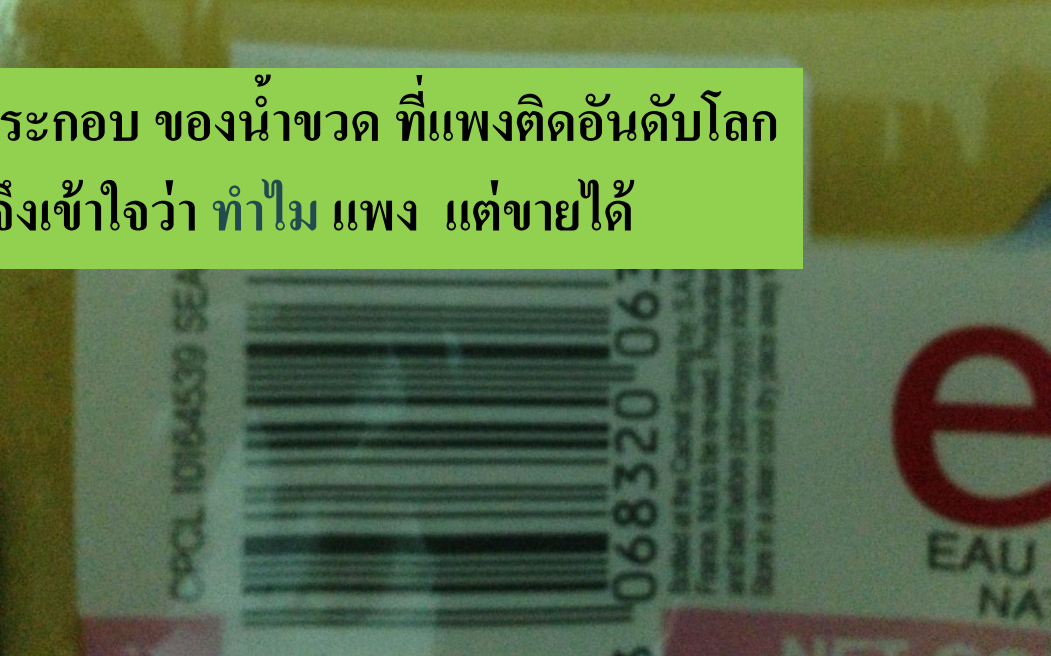
TREATED BY REVERSE OSMOSIS
ULTRAVIOLET LIGHT OZONTION

PRODUCT BY
MR. SOMPHEE DRINKING WATER
KHANTHABULEE DISTRICT
SAVANNAKHET PROVINCE
TEL.:(41) 213555 MOB:(20) 5540068



NET CONTENT 1.5 LITRES

ดูส่วนประกอบ ของน้ำขวด ที่แพงติดอันดับโลก
 จึงเข้าใจว่า ทำไม แพง แต่ขายได้



Nutritional Facts

Servings per package: 1

Serving size: 500 ml (1 Bottle)

	Per servings	Per 100 ml
Energy	0 kcal*	0 kcal
Protein	0 g	0 g
Total Fat	0 g	0 g
- saturated fat	0 g	0 g
Cholesterol	0 mg	0 mg
Carbohydrate	0 g	0 g
Dietary fibre	0 g	0 g
Sodium	13.0 mg	2.6 mg

Composition in mg/litre (approximately)

Calcium	30.3	Potassium	5.3
Magnesium	1.0	Sodium	26.1
Chloride	26.0	Sulphate	7.3
Bicarbonate	80	TDS	100
pH	7.0		

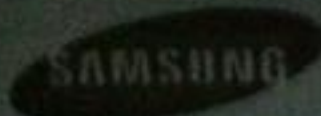
* 1 kcal = 4.2 kJ

Mineral content may vary due to natural causes.

Net Content : **500ml**

ดูส่วนประกอบ ของน้ำขวด ที่แพงติดอันดับโลก
จึงเข้าใจว่า ทำไม แพง แต่ขายได้

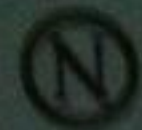
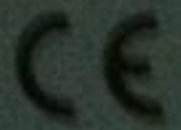
NUTRITION INFORMATION			INFORMASI NILAI GIZI	
Serving Size 100 ml			Takaran Saji: 330ml	
			Jumlah sajian per kemasan:	
			JUMLAH PERSAJIAN	
			Energi Total	
			% A	
Energy	0 kcal	0%	Lemak Total	0g
Protein	0g	0%	Protein	0g
Total Fat	0g	0%	Karbohidrat Total	0g
- Saturated Fat	0g	0%	- Gula	0g
- Trans Fat	0g	0%	Natrium	2.15mg
Carbohydrates	0g	0%		
- Sugars	0g	0%		
Sodium	0.65mg	0%		
(*) Percent Daily Values are based on a 2000 Calories diet.			(*) Persen AKG (Angka Kecukupan Gizi) berdasarkan kebutuhan energi 2000 kkal. Kebutuhan energi akan mungkin lebih tinggi atau lebih rendah.	
Mineral Composition (mg/l)				
Chlorides	6.8 mg	Sodium	6.5 mg	
Calcium	80.0 mg	Bicarbonates	360.0 mg	
Nitrates	5.7 mg	Potassium	1.0 mg	
Magnesium	26.0 mg	Silica	15.0 mg	
Sulphates	12.6 mg			
Dissolved solids at 18°C: 308 mg/L - pH 7.2 Caution: Freezing or boiling this water causes the natural minerals to condense and surface as particles.				
Kandungan Mineral: (mg/l)				
Klorida	6.8	Kalium		
Bikarbonat	360.0	Magnesium		
Kalsium	80.0			



Model: 型號 S23A350B
 Model Code: LS23A350BSV/XT

Color Display Unit Type No. LS23A350
 彩色顯示器 型號 電壓 DC14V 電流 2.14A

US PAT NO. 5,670,972
 Korea KCS-003 Class 5 / Canada NMS-003 Class 5



S/N: 序列號 2TYVHVQB9822704



製造國 製造年月
 MADE IN TIANJIN (CHINA) (SEI)
 MANUFACTURED: SEPTEMBER 2011

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Marca Registrada
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Machine Type: 7479 19.5 V
Model Number: C10 6.66 A
S/N: R85N1F3
Mfg Date: 1000
Product ID: 7479C10
Manufactured for Lenovo(Singapore) Pte. Ltd
Product certified in Fujian, China
Made in China 中国制造





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Underwriters Laboratories

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Underwriters Laboratories Inc. (UL) is an independent product safety certification organization. Established in 1894,^[1] the company has its headquarters in [Northbrook, Illinois](#).^[2] UL develops standards and test procedures for products, materials, components, assemblies, tools and equipment, chiefly dealing with [product safety](#). UL also evaluates and certifies the efficiency of a company's business processes through its management system registration programs. Additionally, UL analyzes drinking and other clean water samples through its [drinking water](#) laboratory in [South Bend, Indiana](#) and evaluates products for environmental sustainability through its subsidiary, UL Environment.

UL is one of several companies approved for such testing by the U.S. federal agency [Occupational Safety and Health Administration](#) (OSHA). OSHA maintains a list of approved testing laboratories, known as [Nationally Recognized Testing Laboratories](#).

Contents [\[hide\]](#)

- [History](#)
- [For-profit subsidiary](#)
- [UL Standards](#) ^[5]
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Underwriters Laboratories Inc.



The UL Mark

Abbreviation	UL
Formation	1894
Type	Standards organization
Headquarters	Northbrook, Illinois, U.S.



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- Which Standards
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"CE Mark" is also in use, but it is NOT the official term. For instance, in the Directive 2007/47/ec, of 5 September 2007, amending the directives 90/385/eec, 93/42/eec & 98/8/ec, the term **CE Marking** appears 9 times whereas **CE Mark** appears nowhere in the entire 35-page document.

- CE Marking on a product is a manufacturer's declaration that the product complies with the **essential requirements** of the relevant European health, safety and environmental protection legislation, in practice by many of the so-called **Product Directives**.
*Product Directives contains the "essential requirements" and/or "performance levels" and "Harmonized Standards" to which the products must conform. Harmonized Standards are the technical specifications (European Standards or Harmonization Documents) which are established by several European standards agencies (CEN, CENELEC, etc).
CEN stands for European Committee for Standardization.
CENELEC stands for European Committee for Electrotechnical Standardization.
- CE Marking on a product indicates to governmental officials that the product may be **legally placed on the market** in their country.
- CE Marking on a product ensures the **free movement of the product** within the EFTA & European Union (EU) single market (total 28 countries), and
- CE Marking on a product permits the **withdrawal of the non-conforming products** by customs and enforcement/vigilance authorities.

Along with more directives' becoming effective, more and more products are required to bear the CE Marking for gaining access to the EFTA & European Union market. However, many non-EU exporters are still unaware of or unsure about this fact and its impact on their business.



Left are correct and real CE Conformity Marking

上边为正确的和真正的CE标志(标记)

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下面为不正确的或假冒的CE标志(标记)
Below are mis-use or fake CE Conformity Marking

ฉลาด **BPA**
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BPA - Bing - Windows Internet Explorer

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Pregnancy BPA Exposure Bisphenol A

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Bisphenol A - Wikipedia, the free encyclopedia
Production · Use · History · Health effects · Human exposure sources
Bisphenol A (**BPA**) is an organic compound with the chemical formula (CH₃)₂C(C₆H₄OH)₂. It is a colourless solid that is soluble in organic solvents, but poorly ...
en.wikipedia.org/wiki/Bisphenol_A · Cached page

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(ภาพประกอบจาก Internet) Bisphenol A หรือ **BPA** คืออะไร ...
www.mom2kids.com/knowledge.php?id=93 · Cached page

BPA Logo & Theme | BPA.org - Business Professionals of America ...
BPA Logo & Theme Documents. **BPA** Graphic Standards; **BPA** Logo, 24-bit Color TIF bitmap; **BPA** Logo, 1-bit (B/W)TIF bitmap; **BPA** Logo, CMYK Vector EPS format
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BPA History | BPA.org
BPA History 1963 Vocational Education Act was passed. The need for a student organization for students enrolled in career/technical office/business programs was ...
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Bisphenol A (**BPA** ...

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EN | 11:11 | 25/5/2555

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 - + วัย 1 ขวบ +
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แนน Enconcept ฟรี
blackmores12plusmulti.com/02


(ภาพประกอบจาก Internet)

Bisphenol A หรือ BPA คืออะไร

เป็นสารเคมีที่ประเภทโพลีคาร์บอเนต (Polycarbonate Plastic) นำมาใช้ผลิตพลาสติกเป็นวัตถุดิบสำคัญ ที่ใช้การผลิตขวดนมเด็ก, ขวดน้ำดื่ม มีคุณสมบัติ ช่วยให้ขวดนม หรือพลาสติก มีความแข็งแรงใส ไม่แตกง่ายเมื่อบริโภคอาหารจากบรรจุภัณฑ์เหล่านั้น ก็จะได้รับสาร BPA เข้าไปโดยไม่รู้ตัว

BPA เข้าสู่ร่างกายได้อย่างไร

ความร้อน จากการต้ม, นึ่ง หรือ สเตอริไลซ์ พลาสติก จะเป็นตัวเร่งปฏิกิริยา ทำให้สารพิษหลุดร่อนปะปนในอาหารยิ่งขึ้น โดยสาร BPA จะแทรกซึมลงในของเหลวและอาหาร ที่บรรจุอยู่ในภาชนะ เช่น ขวดนม ขวดพลาสติก กล่องบรรจุอาหารแล้ว จึงเข้าสู่ร่างกายเสียก่อนเข้าไป

โทษของ BPA ต่อมนุษย์

- มีผลต่อการสร้างเซลล์สมอง ระบบประสาท ความทรงจำ การเรียนรู้
- มีผลต่อฮอร์โมนการเจริญเติบโต และการสืบพันธุ์ ทำให้เด็กเป็นหนุ่มเป็นสาวเร็วเกินไป
- เด็กมีแนวโน้มที่จะเป็นโรคอ้วน และไฮเปอร์แอคทีฟ
- ก่อให้เกิดความเสี่ยงโรคเบาหวาน และโรคหัวใจ
- ยิ่งสะสมในร่างกายมากเท่าใด ก็ยิ่งไปลดศักยภาพการทำงานของร่างกายมากขึ้น
- ที่สำคัญคือ เด็กทารก เมื่อได้รับสาร BPA ก็จะส่งผลกระทบต่อที่รุนแรงมากกว่าในเด็กโต หรือผู้ใหญ่

ความตื่นตัวเรื่องสาร Bisphenol A

- แคนาดา เป็นประเทศแรก ที่ห้ามจำหน่ายขวดนมเด็กที่มีสาร BPA ไปแล้วเมื่อวันที่ 19 เมษายน 2551
- สหรัฐอเมริกา รัฐนิวยอร์ก เป็นรัฐล่าสุด ที่ออกกฎหมายห้ามผลิตและจำหน่ายผลิตภัณฑ์ที่ใช้สำหรับเด็กที่มีสาร BPA โดยมีผลบังคับใช้ในวันที่ 1 ธันวาคม 2553
- สหภาพยุโรป หรือ EU ได้ออกมาเตือน ห้ามใช้สาร BPA ในการผลิตบรรจุภัณฑ์อาหาร และขวดนมแล้ว

ตารางเปรียบเทียบวัสดุที่นำมาผลิตขวดนมในปัจจุบัน

Done

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BPA Free - Windows Internet Explorer

http://www.babybestbuy.in.th/shop/BPA

BPA

Upgrade Your Browser

BPA Free

Page Safety Tools

Baby Best Buy

in Thailand

หน้าแรก สินค้า รถเข็นของคุณ เว็บบอร์ด บทความ เข้าสู่ระบบ วิธีสั่งซื้อ คำถามที่พบบ่อย ติดต่อเราและแผนที่ แจ้งโอนเงิน

เลือกภาษา

หน้าแรก > บทความ > สาร BPA คืออะไร ?

สาร BPA คืออะไร ?

สาร BPA คืออะไร?

BPA (Bisphenol) เป็นสารเคมีที่พบในบรรจุภัณฑ์อาหารและเครื่องดื่มที่ทำมาจากพลาสติก และที่สำคัญคือ มีการทดลองในหนูพบว่า BPA เป็นสารที่มีส่วนเกี่ยวข้องในการเกิดมะเร็งเต้านมและมะเร็งในต่อมลูกหมาก และส่งผลต่อความผิดปกติทางพันธุกรรมของเซลล์ในร่างกายอีกด้วย

จากรายงานของ Environment California Research and Policy Center ชี้ให้เห็นว่า ขวดนมพลาสติกใสแบบที่นิยมใช้กันอยู่ทุกวันนี้ มีพิษจากสารเคมีที่เป็นภัยต่อฮอร์โมนการเจริญเติบโต ระบบประสาท และระบบสืบพันธุ์ (Bisphenol A)

"พ่อแม่มักจะตื่นเต้นกับเด็กๆ ในขวบปีแรกๆ และหวังว่าลูกๆ ของพวกเขาจะได้เริ่มต้นชีวิตที่มีความสุขและมีสุขภาพดี"

"แต่โซครายที่พ่อแม่ไม่มีข้อมูลความรู้เพียงพอที่จะป้องกันลูกๆ ของพวกเขาจากพิษสารเคมี"

"รัฐแคลิฟอร์เนียควรจะบังคับให้ผู้ผลิตติดการใส่สารเคมีเป็นพิษลงในสินค้าสำหรับเด็ก และควรมีการให้ข้อมูลที่จำเป็นเพื่อช่วยในการตัดสินใจในการเลือกซื้อของให้กับพ่อแม่"

Environment California Research and Policy Center ทำงานร่วมกับเลียบเอกชน ตรวจสอบขวดนมยอดนิยม 5 ยี่ห้อ เพื่อดูว่ามี Bisphenol A ที่สามารถผ่านออกจากขวดสู่อากาศที่บรรจุภายในหรือไม่

- ขวดนม 5 ยี่ห้อ ประกอบด้วย: Avent, Dr. Brown's, Evenflo, Gerber และ Playtex
- ทั้ง 5 ยี่ห้อ มีสารพิษ Bisphenol A ในระดับที่เป็นอันตรายต่อสัตว์ทดลองในแล็บ

Bisphenol A นิยมใช้กันทั่วไปเพื่อทำให้ขวดพลาสติก เช่น ขวดนม มีความใส สารพิษจะกรองออกและแทรกซึมลงในของเหลวและอาหารที่บรรจุอยู่ภายในได้เมื่อใช้งาน

Done

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ENVIRONMENT

European Commission > Environment > Ecolabel

Home | Who's who | Policies | Integration | Funding | Law | Resources | News & Developments



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- EU ECOLABEL FOR BUSINESSES
- MORE ABOUT THE EU ECOLABEL
- NEWS
- COMMUNICATION AWARDS



The EU Ecolabel

The Ecolabel Catalogue

Facts and figures

Did you know?

FAQ





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- The Ecolabel Catalogue
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Did you know?

- EU Ecolabel minimises the use of hazardous substances and substances that may be harmful to the aquatic environment.
- Where cardboard boxes are used, Ecolabelled light bulbs use at least 80% recycled packaging.



A technological breakthrough in ACC being displayed at the Conference.

ICT

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From Vancouver, BC (YVR) To Edmonton, AB (YEG)

ROUND-TRIP OR ONE-WAY? Round-Trip One Way

WHEN WOULD YOU LIKE TO GO?

Leave 17 April 2000 Return 28 April 2000

HOW MANY PASSENGERS? 4 Passengers



WestJet's Online Booking System - Netscape

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Bookmarks Location: <https://secure.westjet.com/tf3/cgi-bin/itinerary.cgi> What's Related

Instant Message GIF image 1036x Internet Lookup New&Cool

Edmonton, AB (YEG) to Vancouver, BC (YVR)

28 Apr 00 Flight WJ 14 Depart Edmonton, AB (YEG) at 13:00 and arrive in Vancouver, BC (YVR) at 13:30.

CONTACT INFO

MahRay
2338 Baydala Court
Richmond, BC V6X 3R4
Canada

PASSENGER INFO


4 Passengers:
Atibaedya/Chaihaream
Sirinan/A
Atipon/B
Atipon/C

PRICING INFO

Total for 4 Passengers:
Fare Price: \$ 736.00 CDN
Taxes: \$ 158.56 CDN

BILLING INFO

Cardholder Ray Mah
Card Type: Visa
Payment: \$ 894.56 CDN



Confirmation Number **A25UAC** Booking Date: 27 Mar 00

! IMPORTANT: You will need to provide this confirmation number and positive I.D. to WestJet at checkin in order to receive a boarding pass for your flight.

ITINERARY

OUTBOUND
Vancouver, BC (YVR) to Edmonton, AB (YEG)
 17 Apr 00 Flight WJ 24 Depart Vancouver, BC (YVR) at 16:25 and arrive in Kelowna, BC (YLW) at 17:15
 17 Apr 00 Flight WJ 24 Depart Kelowna, BC (YLW) at 17:45 and arrive in Edmonton, AB (YEG) at 19:45

RETURN
 Edmonton, AB (YEG) to Vancouver, BC (YVR)



THAI ECONOMY

Boarding pass

THAI Boarding pass

NAME OF PASSENGER
LASTNAME.FIRSTNAME

DEPART
FROM BANGKOK - THAILAND
TO MAPUTO - MOZAMBIQUE

FLIGHT
TG - XXX

DATE
JULY 1, 2013

ETKT: *** TBD - UPON RESERVATION ***
UPGRADABLE TICKET AT YOUR OWN COST
ONE WAY TICKET ONLY

NAME OF PASSENGER
LASTNAME.FIRSTNAME

DEPART
FROM BANGKOK /BKK
TO MAPUTO
/MOZAMBIQUE

RETURN
FROM .
TO .

FLIGHT DATE
TG - XXX JULY 1, 2013

Some drivers check tire pressure twice a day

Continued from 1B

competitive advantage if you do something just a little bit differently," says Z. John Zhang, professor of marketing at the Wharton School, University of Pennsylvania.

Truckers and airlines have been especially hard hit. Airlines have raised fares 10 times since mid-December, often because of fuel costs. Last month, independent truckers nationwide slowed deliveries to protest gas prices.

Kerns Trucking of Kings Mountain, N.C., using computer chips that limit the top speed of trucks, recently cut the top speed for its long-haul trucks to 65 mph. That's down from 72 mph last year.

To win over drivers, Kerns Vice President Doug Prestwood amasses statistics, including one showing that a bump from 65 mph to 70 mph cuts fuel economy by 8.2%. "That's a lot of money per week," says Prestwood.

Delivery services FedEx and UPS said in recent earnings reports that they've successfully passed higher fuel costs on to customers. Others haven't.

Last month, Carrier Trucking of Gorham, N.H. — unable to get higher prices from struggling paper mill customers — parked half of its 50 semi-trucks because the company was losing \$1 a mile making deliveries, says fleet manager Jeff Webster.

He speculates that rivals who picked up the routes Carrier dropped are sacrificing profits for market share. "We're not big enough to sustain losses like that," he says.

Increasing efficiency boosts savings

Big companies in the lead of the ground freight-moving business, such as J.B. Hunt Transport Services, UPS and FedEx, have long focused on fuel and used such tools as sophisticated software and Positioning Systems to optimize routes.

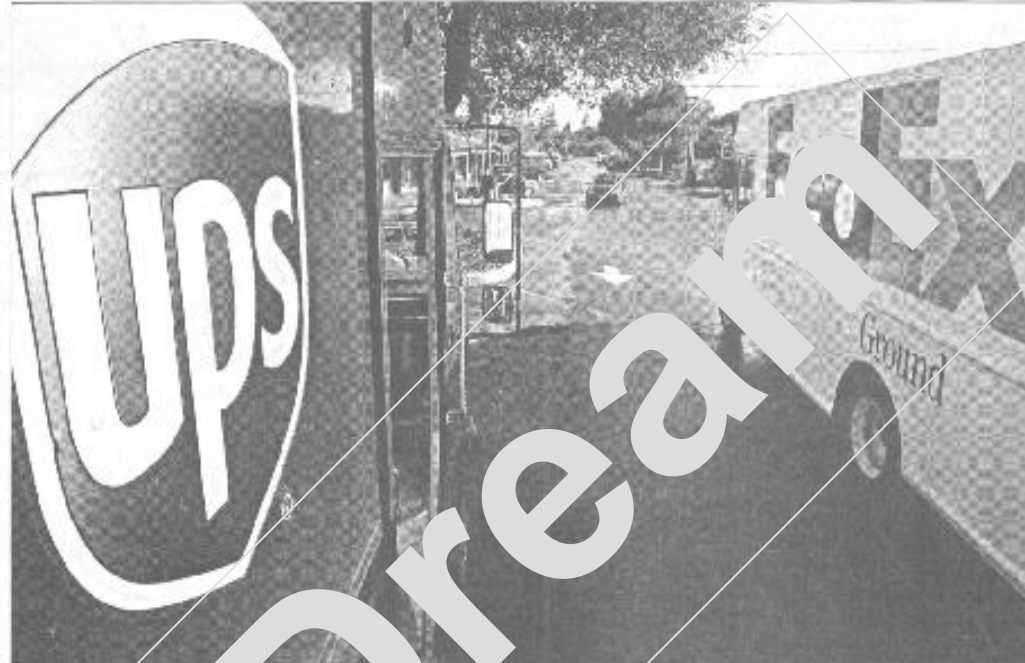
Now even smaller companies and those who operate locally in the freight-moving business are focusing more on fuel.

They're making changes by:

► **Combining deliveries.** The Truckee Tahoe member company in Truckee, Calif., has seen a triple-whammy: a drop-off in new home construction, record low lumber prices and record high fuel prices.

"I'm working on trying to understand how to remain profitable," says Steve Stevenson, vice president of the 68-employee company.

Truckee added new delivery charges this month that run \$15 to \$50 for some orders under \$500. It's also asking customers, primarily home builders, to plan



Industry leaders: Delivery services FedEx and UPS said in recent earnings reports that they've successfully passed higher fuel costs on to customers. Other companies haven't been as fortunate, and they're having to get creative with ways to trim costs.

ahead so it delivers once a day, two or three times. Some of Truckee-Tahoe's suppliers have also reduced delivery frequency, Stevenson says.

Audiovox sources most of its electronics in Asia. Sea containers that aren't full are being held more often now than in the past until they are full, Moffett says. "If you're not getting what we really need, I may say let it ride. If it's not what we need, it's not what we need," he says. So far, delays haven't led to product shortages, he says.

Even flowers are being affected. Hoogasian Flowers in San Francisco now asks customers for two delivery days instead of one so Hoogasian can, if possible, combine trips.

► **Reconfiguring routes.** Office Depot handles 24 million deliveries a year from warehouses to stores or customers.

Three years ago, the retailer deployed software from a division of UPS to design routes to maximize the number of deliveries on each while minimizing time and distance, says Yalmaz Siddiqui, director of environmental affairs. One trick: restrict left-hand turns.

The results? Office Depot now makes 180 to 200 deliveries per truck over 80-to-100-mile routes. That's up from 125 to 135 deliveries over the same distance,

Siddiqui says.

Waste Connections, which services 1.5 million customers in 23 states, has likewise pumped up route efficiency. Over the past two years, it's reconfigured a fifth of its 2,700 daily routes, Mittelstaedt says.

Before, routes were often based on customers' preferred days for garbage pickup. New routing software helped Waste Connections devise more efficient routes. The company is also urging customers to change pickup days so that it travels less to the same regions.

"We've gone to customers and said, 'Either you switch your day, or your price is going to double,'" says Mittelstaedt. In some cases, customers got discounts for switching.

► **Improving fleets.** In the past three years, Office Depot has replaced 90% of its 600 box trucks with smaller vans that are 40% more fuel efficient, Siddiqui says.

FedEx has also optimized fleets so that more-fuel-efficient vehicles are on longer routes. So far this year, it has cut fuel consumption on fuel-efficient vehicles that year-over-year. "We're looking at fuel efficiency as a key metric," says Mittelsstaedt, director of environmental affairs.

Little ways to save can add up fast

These days, no fuel-saving initiative is too small to try.

For 10 years, Waste Connections has checked tire pressure on trucks every two or three days to make sure they're inflated for the best gas mileage. Now, they're checked twice a day.

"When fuel was \$1.50 a gallon, tire pressure was insignificant. At \$4.50 a gallon, it's significant," says Prestwood of Kerns Trucking, which runs a fleet of 38 semi-trucks. Kerns has also increased tire-pressure checks.

Engine idling has been attacked, too, because an hour of idle can eat up a gallon of diesel fuel. Last year, Waste Connections added automatic shut-offs to about 75% of its 2,700 trucks so that drivers can't idle trucks for longer than a few minutes.

It also cut idle speeds in half so that engines turn half as fast.

Kerns Trucking bought battery-powered units for drivers to run air conditioners and heaters. Typically they'd idle engines instead.

Last year, UPS tested technology that included sensors to track everything from vehicle speeds to idle times. The data helped UPS cut idle times by 24 minutes a day per vehicle by reminding drivers to idle less. UPS deployed the technology from 200 to 1,400 more drivers within three months — a faster rollout than normal because of rapidly escalating fuel costs, says automotive manager Mike Hance.

The ins and outs of conservation

Many of the changes require trade-offs.

Truck drivers like to stay in the flow of traffic. Limiting speeds makes that harder. When goods spend more time in transit, inventory costs rise.

Audiovox is waiting longer for goods from Asia not only because it's shipping more over water, but because it's also using more rail, which is at least three times more fuel-efficient than trucks, within the USA.

As fuel assumes a greater share of companies' expenses, fuel savings also produce bigger payoffs.

Waste Connections has cut fuel consumption by 8% to 10% over the past three years, Mittelstaedt says. That's about 2 million gallons a year. That helps to offset rising prices. The company has recouped about 75% of its higher fuel costs through price increases and surcharges, Mittelstaedt says.

Like many, he doesn't expect fuel prices to drop, given strong demand from huge, rapidly growing economies in Asia and India. But he says, "I don't think there can be a silver lining in time," he says.

source: usa today apr'08



YESTERDAY

นานมาแล้ว
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TODAY2009

ตั้งแต่ 5 ปีที่ผ่านมา
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Products that comply with ENERGY STAR[®] specifications are distinguished by the ENERGY STAR[®] label (Figure 1). Certification is based on compliance with a set of minimum energy efficiency performance standards.



Figure 1: Examples of the ENERGY STAR[®] Label

Eligibility for the ENERGY STAR[®] label

Manufacturers must perform a self-assessment of products to prove compliance. As of January 2011, the US EPA will also require manufacturers to prove compliance via third party certification. Energy performance standards that products must meet are set out in the ENERGY STAR[®] specification documents (see Box 3 below).

Box 3: Guiding principles of ENERGY STAR[®]

Products can earn the ENERGY STAR[®] label by meeting the energy efficiency requirements set out in ENERGY STAR[®] product specifications. The US EPA establishes these specifications based on the following set of key guiding principles:

- Product categories must contribute significant energy savings nationwide.

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การกำหนด

ENERGY STAR

เบอร์ ห้า

.....

เป็นต้น

Switch & Save With Energy Star-Certified Equipment

Based on EPA and Lawrence Berkeley National Laboratory estimates, here's what you'll save per year by switching to Energy Star-certified equipment. (Based on an average electrical rate of \$0.10/kWh.)

Item	Annual Cost Savings
Computers & Monitors	\$20 to \$37 ea.
Copiers	\$24 ea.
Fax Machines	\$10 ea.
Printers	\$4

This means that an office with, say, 25 computers, two copiers, one fax machine, and two printers could save approximately \$1,000 every year if it did nothing other than use Energy Star-certified equipment.



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กว่าจะย่อยสลายได้....



มีหลากหลายรูปแบบ
หลายมาตรฐาน



ห้างสรรพสินค้า
อเมริกา
ช่วยลดงานเหลน
ของเค้า

ห้างสรรพสินค้า

ในสิงคโปร์

แข่งขัน กรีน

ทำเพื่อหลานเหลน

ประเทศเค้า



Singapore
May 2013

THAILAND 2013



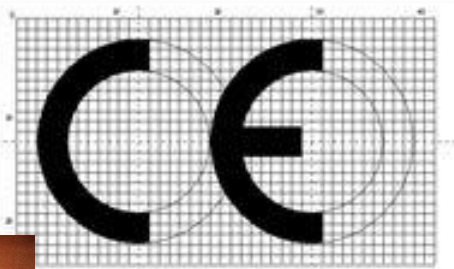
Thermo-Control and Noise Killer **ADVANCE** Alimentation Silencieuse, Thermo-Régulée

MODEL NO: ATX-5000
 AC INPUT/PRISE SECTEUR: 230V~, 5A, 50-60Hz
 OUTPUT/SORTIE: **480W Max (VP-5001A)**
 +3.3V == 30A (ORANGE) +12V == 20A (JAUNE) +5V == 35A (ROUGE)
 +5VSB == 2A (VIOLET) -12V == 0.5A (BLEU)
 +3.3V & +5V Charge combinée: 250W
 +3.3V, +5V & 12V Charge combinée: 480W
 P.G.(GRIS), PS-ON(VERT), GND(NOIR)

CE FC CB N

WARNING
 HAZARDOUS VOLTAGES CONTAINED WITHIN THIS POWER SUPPLY, NOT USER SERVICEABLE. RETURN TO SERVICE CENTER FOR REPAIR.

ATTENTION
 PRODUITS ELECTRIQUES DANGEREUX! NE PAS L'OUVRIR, LE CONFIER AU SERVICE SPECIALISE POUR LA REPARATION.



Marquage CE officiel

Seagate Backup Plus Portable Drive Model: SRD0SP0

PN: 1D8AP8-500 1 TB
 SN: NA51P0JJ
 Assembled in China
 Product of China (HDD)

FC e e 10 Nemko vca K

CE



CLASS 2 BATTERY CHARGER

MODEL: CHARGER-4.2V-400
 INPUT: DC 12V 400mA
 OUTPUT: DC 1.2V 750mA

UL US LISTED

CLASS 2 BATTERY CHARGER

MODEL: CHARGER-4.2V-400
 INPUT: DC 12V 400mA
 OUTPUT: DC 1.2V 750mA

UL US LISTED

GS LPS UL US LISTED LEVEL 3 ESD0 E208148 ITC POWER SUPPLY FACTORY ID: F3

DATE CODE: 130408

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Micro Accessories Inc.
 Manufactured by EPS in China





End of the day

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July 2012

Impacts from End-of-Life phase



Greenpeace Thailand



Photo by PCD

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- ประสานงาน เรียนรู้จากผู้รู้ เช่น ควบคุมมลพิษ ; สิ่งแวดล้อม ฯลฯ
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