



School Information Security

Do you know it ?

Can you make it ?

學校資訊及網絡安全 你懂嗎？你做到嗎？

Mr. Albert Wong

IT Manager & Teacher, Ying Wa College (YWC)

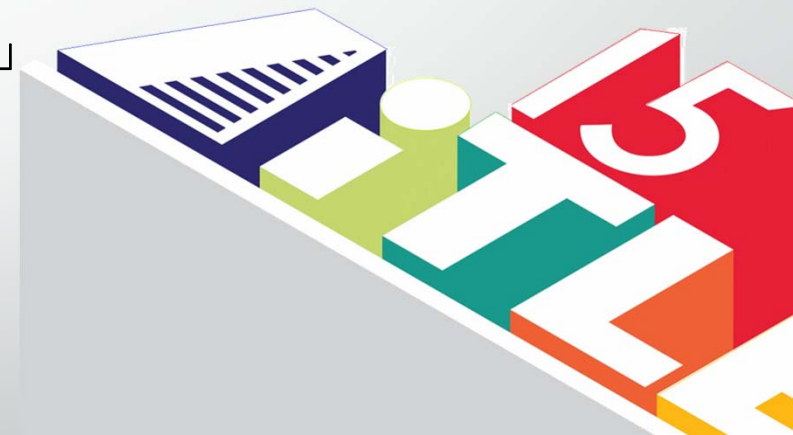
Chairman, Association of IT Leaders in Education (AiTLE)

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Website: <https://www.aitle.org.hk>

資訊科技教育領袖協會 (AiTLE)

- 創立於 2002 年
 - 源於「教育局第一期資訊科技教育策略 AIT 培訓課程」
 - 由不同學校資訊科技統籌及電腦科老師組成
 - 教師團體、專業團體、義務組織
 - 舉辦不同「教師專業發展」及「學生比賽」
 - 講座、工作坊、海外交流團等
 - 幹事及從屬幹事：52 人
 - 會員人數：1,540 人
 - 為學界最大 IT 教師專業團體
 - Google Educator Group (GEG) Hong Kong - Leader & Co-Leaders
 - Microsoft Education Hong Kong – AiTLE Microsoft Expert Teacher (AMET)





AiTLE 與 Info Sec

資訊保安 @ AiTLE @ 2003



2016-03-22



首頁 最新消息 本會資料 本會項目 (Projects) 會員專區 常用連結 [IT in Ed、e

AiTLE 合辦活動：「學校資訊保安講座：加密勒索軟件～危害、影響與解決？」

Dates: 03/22/2016 Times: 16:30 - 18:30 Location: 九龍九龍塘「教育局九龍塘教育服務中心」西座 WP01

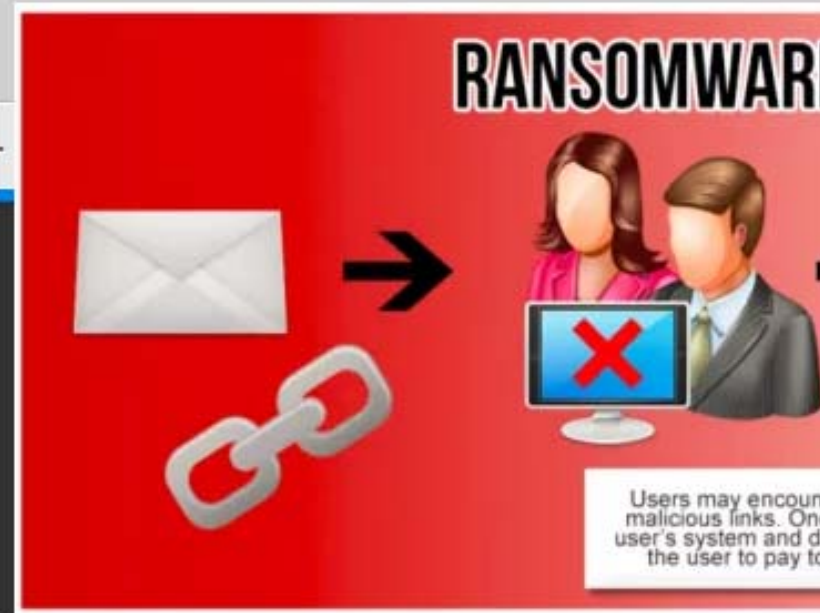


<https://www.aitle.org.hk/?p=3177>

2016-04-19

AITLE 合辦活動：「學校資訊保安講座：加密勒索軟件～防範、數據保障與解決方案」

Dates: 04/19/2016 Times: 14:30 - 17:30 Location: 九龍九龍塘「教育局九龍塘教育服務中心」西座 4 樓演講廳



<https://www.aitle.org.hk/?p=3243>

2016-04-30



首頁 最新消息 本會資料 本會項目 (Projects) 會員專區 常用連結 [IT in E

AiTLE 合辦活動：Email [Server] Migration to Cloud Seminar

Dates: 04/30/2016 Times: 09:30 - 12:30 Location: Room 201-202, 2/F, HkedCity, Sha Kok Estate, Shatin Wai, Shatin



<https://www.aitle.org.hk/?p=3252>

2016-09-07

[首頁](#)[最新消息](#)[本會資料](#)[本會項目 \(Projects\)](#)[會員專區](#)[常用連結](#)[\[IT in Ed - e](#)[oda](#)


AiTLE + HKUEdAA + EDB Seminar : Security Threats in Schools (physical and social)

Dates: 07/09/2016 Times: 09:30 - 12:29 Location: W404, EDB KTESC, Kowloon
Tong, Kowloon



<https://www.aitle.org.hk/?p=3446>

2017-05-17

[首頁](#)[最新消息](#)[本會資料](#)[本會項目 \(Projects\)](#)[會員專區](#)[常用連結](#)[「IT in Ed、eLearning、STEM」活動時間表](#)[Subscribe for updates](#) 

AiTLE Seminar : Briefing Seminar re Defense Against the Ransomware “WannaCry”

Dates: 05/17/2017 Times: 17:00 - 19:00 Location: Lecture Theatre, 4/F, West Block,
Kowloon Tong Education Services Centre, 19 Suffolk Road, Kowloon Tong, Kowloon



<https://www.aitle.org.hk/?p=3937>



AiTE 簡介會：加強學校資訊保安與數據保護簡介會

<https://www.aitle.org.hk/?p=4365>



2018-04-30



首頁 最新消息 本會資料 本會項目 (Projects) 會員專區 常用連結 「IT in Ed

「資訊科技教育領袖協會 (AiTLE)」 全港學校網站安全普查發布會

Dates: 04/30/2018 Times: 10:00 - 11:00 Location: 觀塘鴻圖道 52 號 2 樓



<https://www.aitle.org.hk/?p=4656>

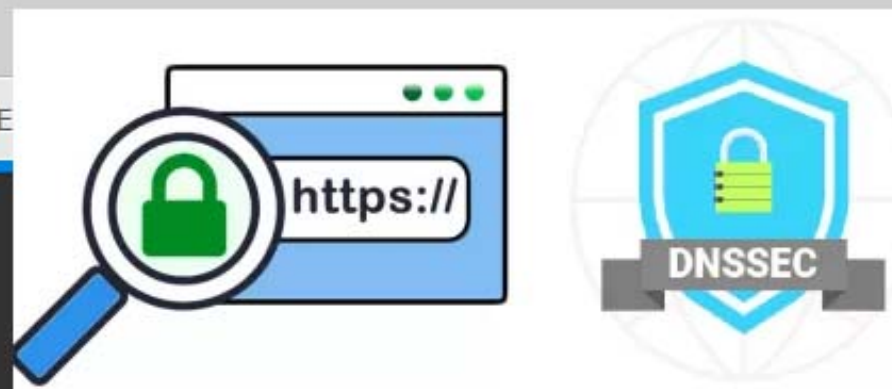
2018-06-13



首頁 最新消息 本會資料 本會項目 (Projects) 會員專區 常用連結 [IT in E

AiTLE Event : Seminar on SSL & DNSSEC for School Websites

Dates: 06/13/2018 Times: 15:00 - 17:30 Location: 新界沙田博康邨「基督書院」



<https://www.aitle.org.hk/?p=3177>

AiTLE Community of Practices on Info Sec



AiTLE Sch Info Security 1

Created 3/31/2016 at 10:37



AiTLE Sch Info Security 2

Created 7/31/2017 at 23:01

Another AiTLE Whatsapp group



HK K12 Info Sec Focus Gp

Created 3/14/2016 at 22:48

With expert from

- AiTLE
- HKCERT
- HKIRC / HKDNR
- HKCERT
- Hong Kong Police Force
- PISA
- Cisco
- Microsoft
- Speedy
- UDomain
- EDB
- HkedCity



你與 Info Sec

一間學校的 IT 工作

- 班房電腦，咪箱，實物投影機
- 教員室電腦
- 電腦室電腦
- 影印機
- 廣播系統
- 校園電視台
- 閉路電視
- 禮堂音響、燈光
- 學校網頁
- 學校伺服器（維護、備份、冗餘）
- 無線網絡
- 軟件版權
- 電子學習
- **BYOD**
- 內聯網
- 拍卡點名
- 電子通告
- 家長 **App**
- 防火牆
- 資訊素養
- 技術員管理
-

一間學校的 IT 工作

- 班房電腦，咪箱，實物投影機
- 教員室電腦
- 電腦室電腦
- 軟件版權
- 電子學習
- BYOD

哪一項工作最重要？

- 禮堂音響、燈光
- 學校網頁
- 學校伺服器（維護、備份、冗餘）
- 無線網絡
- 防火牆
- 資訊素養
- 技術員管理
-

一間學校的 IT 工作

- 班房電腦，咪箱，實物投影機
- 教員室電腦
- 電腦室電腦
- 軟件版權
- 電子學習
- BYOD

其實：每一門也是一門學問

- 禮堂音響、燈光
- 學校網頁
- 學校伺服器（維護、備份、冗餘）
- 無線網絡
- 防火牆
- 資訊素養
- 技術員管理
-

一間學校的 IT 工作

- 班房電腦，咪箱，實物投影機
- 教員室電腦
- 軟件版權
- 電子學習

但變化得最快，可令你
「一舖清袋」的，是..

- 禮堂音響、燈光
- 學校網頁
- 學校伺服器（維護、備份、冗餘）
- 無線網絡
- 防火牆
- 資訊素養
- 技術員管理
-


中咗

當你（學校）中咗



Image Source :

https://cdn.hko1.com/di/media/images/378041/org/960c58864092edf3b0c40c3b31eb8171.jpg/VYZZY-6xIEPB_oPgGi-oMwodOvEfV4zHZT_sXmU_7F4?v=w1920



當你（學校）中咗

你會問：「點解會係我呀！」



回顧 AiTLE Activities on Info Sec

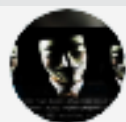
2016 > 2017 > 2018

代表「靜」咗？

分享(一)



分享(一)



AiTLE Sch Info Security 1

一些建議：

如果要用Remote desktop, 請先用VPN.

如果是一般操作，請不要用Domain Administrator Password.
一定要有一份offline backup.

16:53

用teamviewer 會唔會較安全？

16:57

Alert For [REDACTED] - albertwong



Terence Reardon <foflorentinozq... 2018年7月28日 週六 上午6:59



寄給 albertwong@aitle.org.hk ▼

I will cut to the chase. I'm aware [REDACTED] is your pass word. Moreover, I am aware about your secret and I have proof of it. You do not know me and no one employed me to check out you.

It is just your misfortune that I stumbled across your blunder. In fact, I actually setup a malware on the adult vids (sex sites) and you visited this site to experience fun (you know what I mean). While you were watching videos, your internet browser started operating as a Rdp (Remote desktop) with a keylogger which provided me with accessibility to your display as well as web camera. Just after that, my software

And I am about to offer you two options which will achieve that. I hose two choices to either ignore this letter, or perhaps pay me \$3200. Let's investigate these 2 options in details.

First Option is to ignore this e-mail. Let's see what will happen if you select this path. I will definitely send out your video recording to all of your contacts including family members, colleagues, and so on. It will not save you from the humiliation you and your family will face when family and friends learn your unpleasant details from me.

Option 2 is to send me \$3200. We will name it my "privacy charges". Now lets see what will happen if you pick this option. Your secret will remain your secret. I'll destroy the recording immediately. You continue on with your daily life as though none of this ever happened.

Now you may be thinking, "I will call the cops". Let me tell you, I have covered my steps to make sure that this message cannot be linked to me plus it won't stop the evidence from destroying your life. I am not planning to steal all your savings. I just want to get

pretty much everything disappear and pay me my confidentiality fee. You'll make the payment via Bitcoin (if you do not know this, type "how to buy bitcoins" on google)

Amount to be sent: \$3200

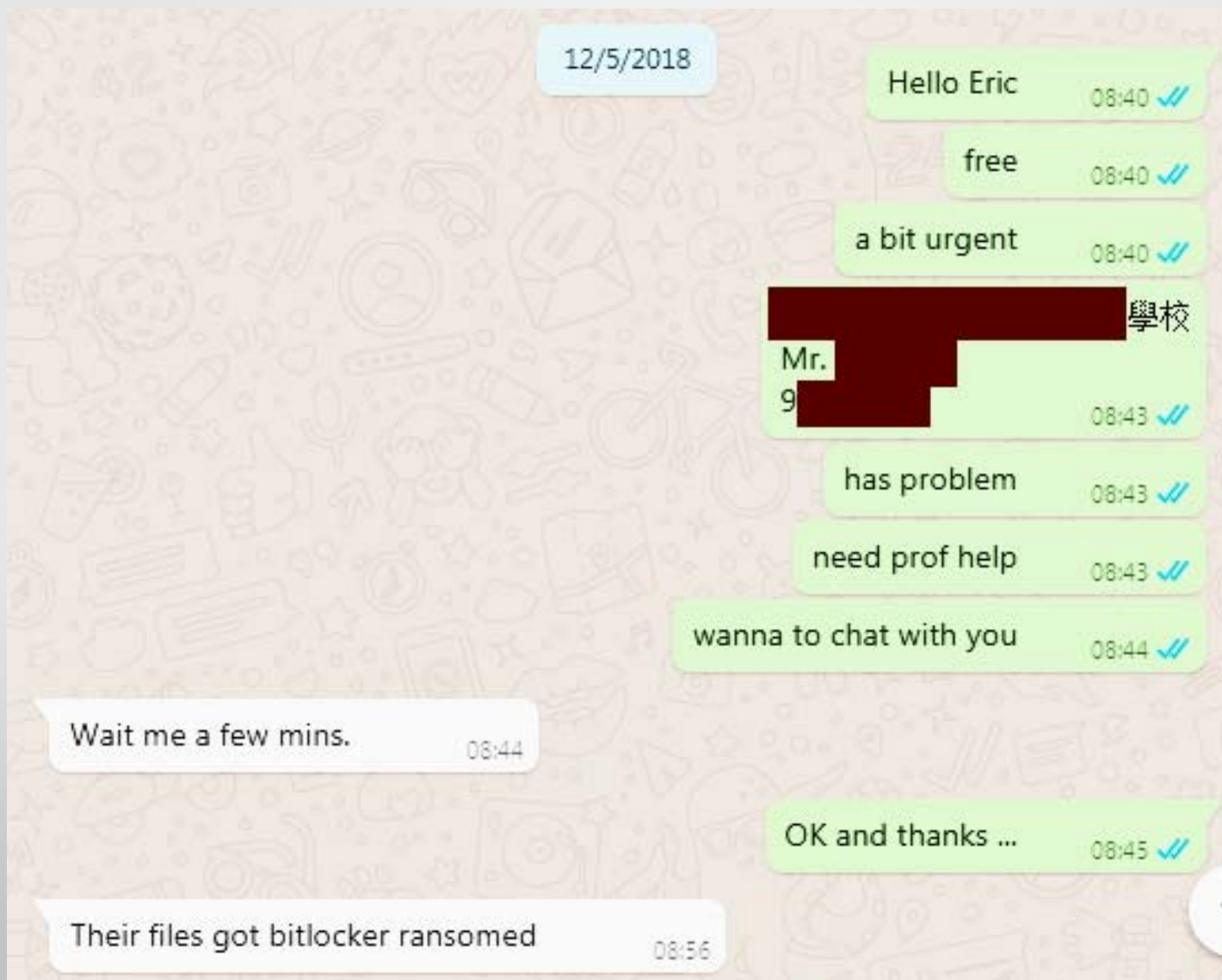
Bitcoin Address to Send to: 17G46bmya24bMEzvbYmvUrGLtgAEdDW45M

(It is CASE sensitive, so copy and paste it)

Share with no one what will you be utilizing the bitcoin for or they may not offer it to you. The process to have bitcoins may take a day or two so do not delay.

I've a unique pixel within this e-mail, and now I know that you have read through this email message. You now have 2 days in order to make the payment. If I do not get the BitCoin, I will definitely send your video recording to all of your contacts including friends and family, colleagues, and so forth. You better come up with an excuse for friends and family before they find out. Nonetheless, if I receive the payment, I'll destroy the video and all other proofs immediately. It's a non negotiable offer, so don't waste my time and yours. Time is running out. You should know that my software will still be sharing what action you adopt when you are done looking over this email. Let me assure you that If I see any bad activity from your web history then let me send

分享(三)



分享(三)



分享(三)



分享(三)

12/6/2018

Do you know the update of the school case yesterday ??

15:38 ✓

Yes, they whatsapp me this morning

15:56

Eric Fan

Yes, they whatsapp me this morning

An unexpected result

16:16 ✓

haha, which mean they have luck

16:16

你估，佢地會唔會有follow up action?

16:17

Eric Fan

haha, which mean they have luck

Yes

18:18 ✓

Eric Fan

你估，佢地會唔會有follow up action?

佢地 = school or hacker

18:19 ✓

分享(四)

1/5/2019 M_Van Check List.xlsx.vhsykhf

- 2018_12_12_胸懷雷世 -- 為以色列福音差會祈禱.doc.vhsykhf
- 2018_所羅門聚會詩體表R4.xlsx.vhsykhf
- 2018年8月16日丘中中一迎新日.doc.vhsykhf
- 2018年寫經短文2 (1).doc.vhsykhf
- 2018事奉人員第二季事奉人員3 (1).doc.vhsykhf
- 2018信仰研討班題目 (修訂).xlsx.vhsykhf
- 2018拿細耳小組第10次議程.doc.vhsykhf
- 2018潮親旅行報名表_R3.xlsx.vhsykhf
- 2019_JanForm.pdf.vhsykhf
- 2019信仰研討班題目 (1).xlsx.vhsykhf
- 2019信仰研討班題目 (2).xlsx.vhsykhf
- 2019信仰研討班題目.xlsx.vhsykhf
- 180805認識耶和華.doc.vhsykhf
- 181216 神看顧人.doc.vhsykhf

11:53 ✓✓

中咗？

11:53 ✓✓

From a friend

11:53 ✓✓

中左啦

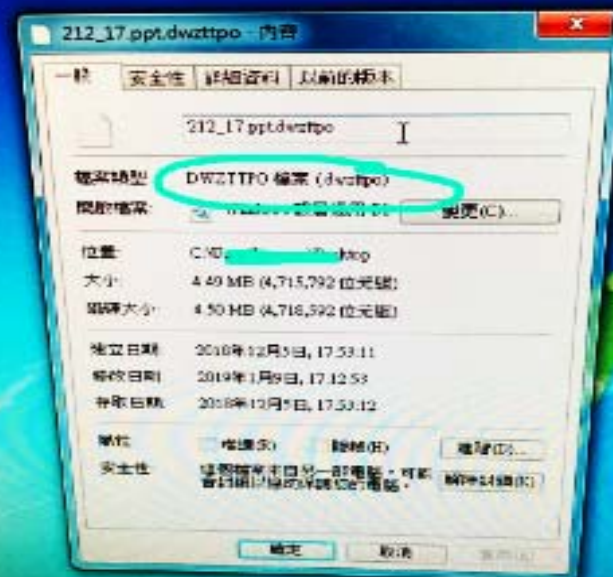
12:04

用邊隻Ant Virus.

12:05

分享(五)

1/9/2019



A teacher ask whether is infected by virus / ransomware ???

18:17 ✓

個老師話個同事上網去一個把影片轉格式既網址，Click 咗入去就中咗

19:00 ✓

跟住而家部機嘅 file encrypted .. Server files also encrypting ... 但暫時發現只係果位中咗同事既權限去到既檔案被加密

19:01 ✓

分享(六)

同事？

學生？

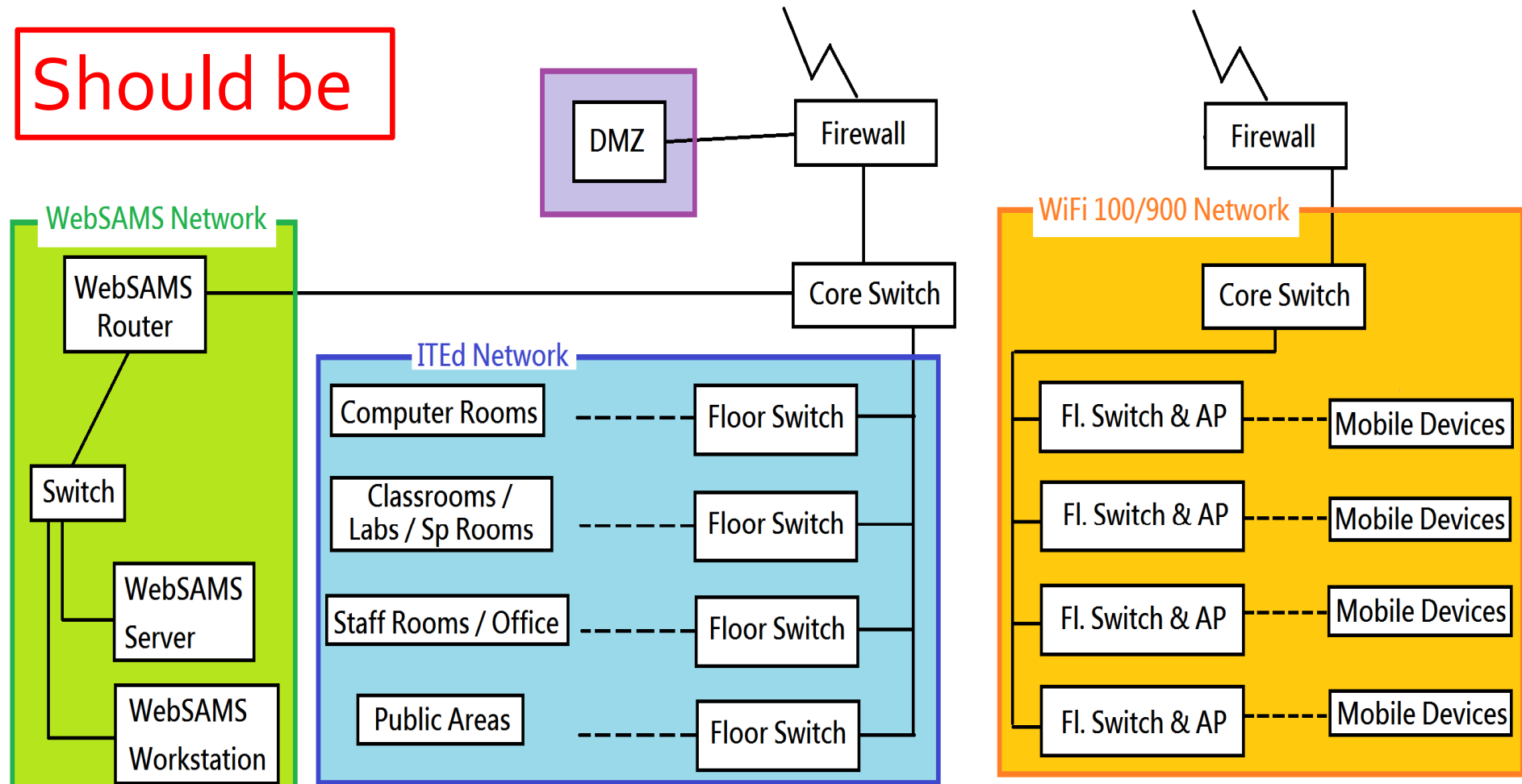
TSS？



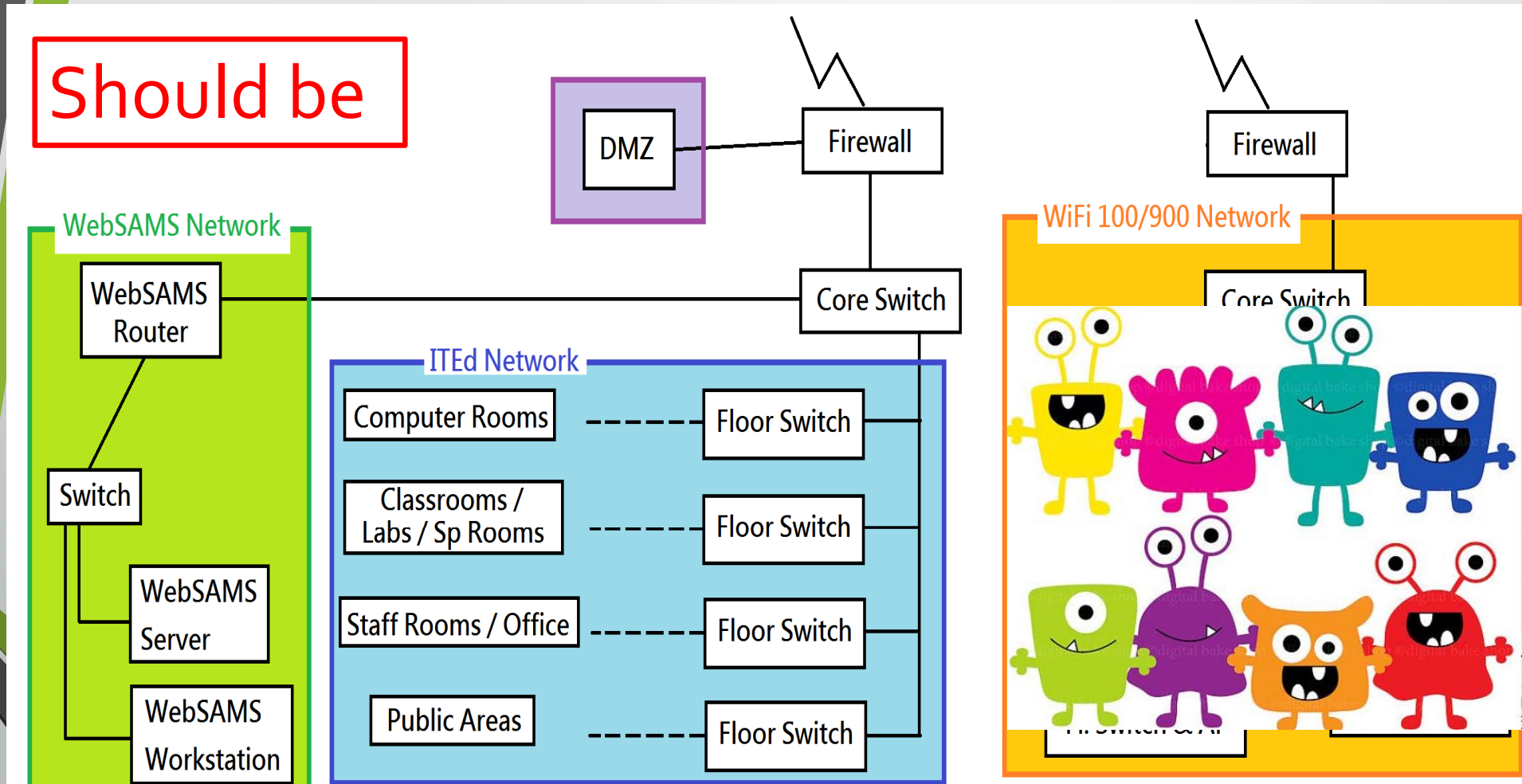
一切從設計開始

基本學校網絡佈局

Should be

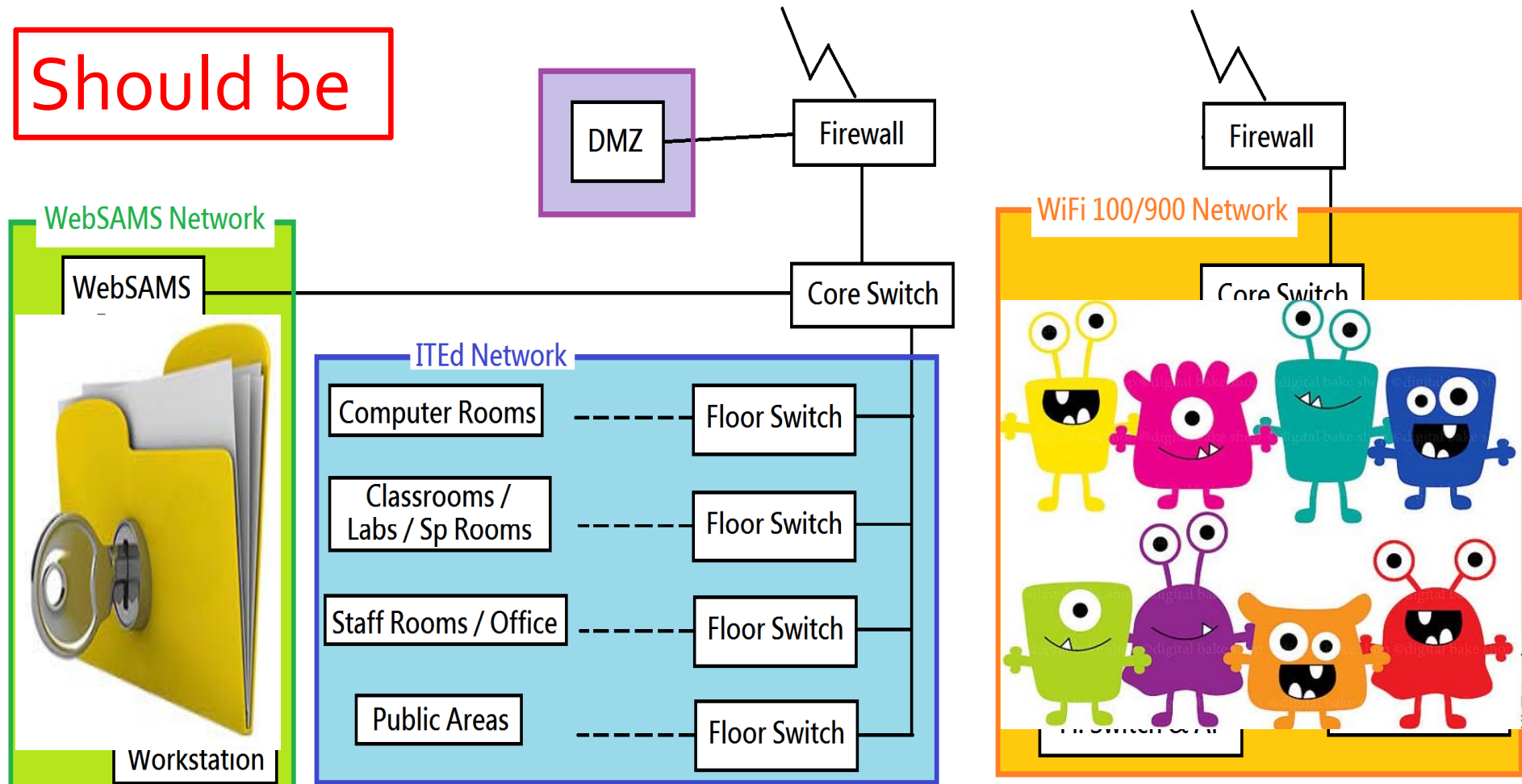


基本學校網絡佈局



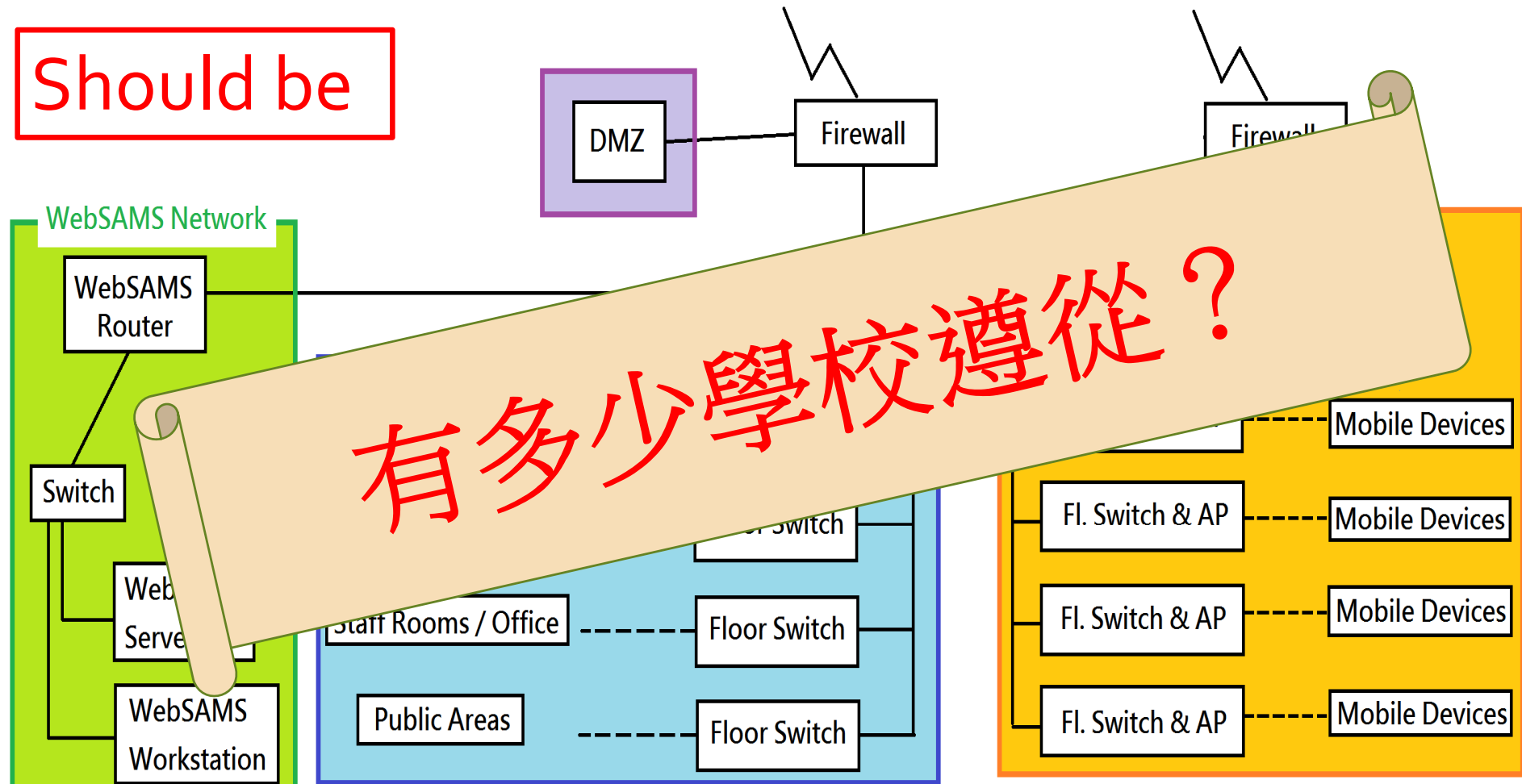
基本學校網絡佈局

Should be



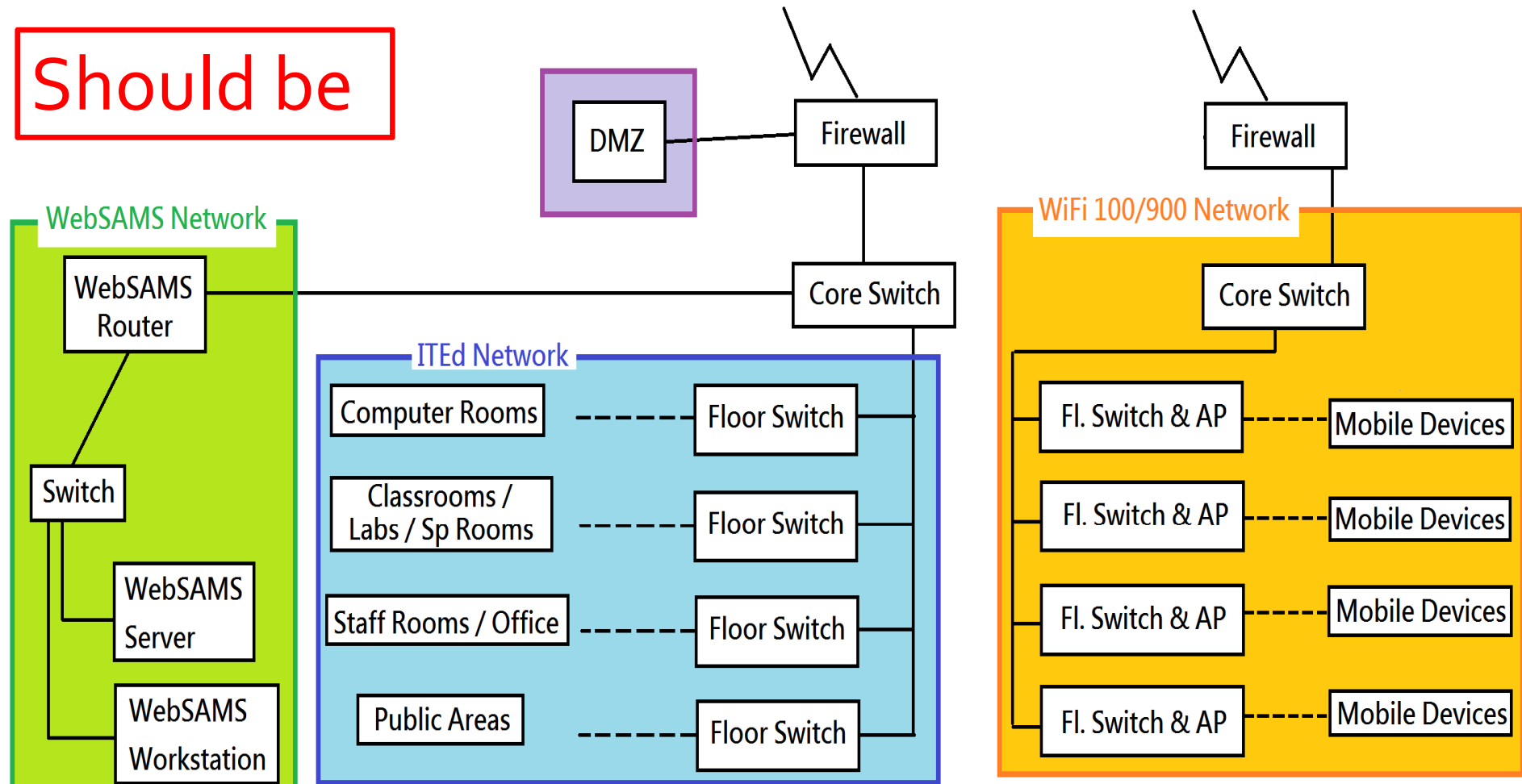
基本學校網絡佈局

Should be

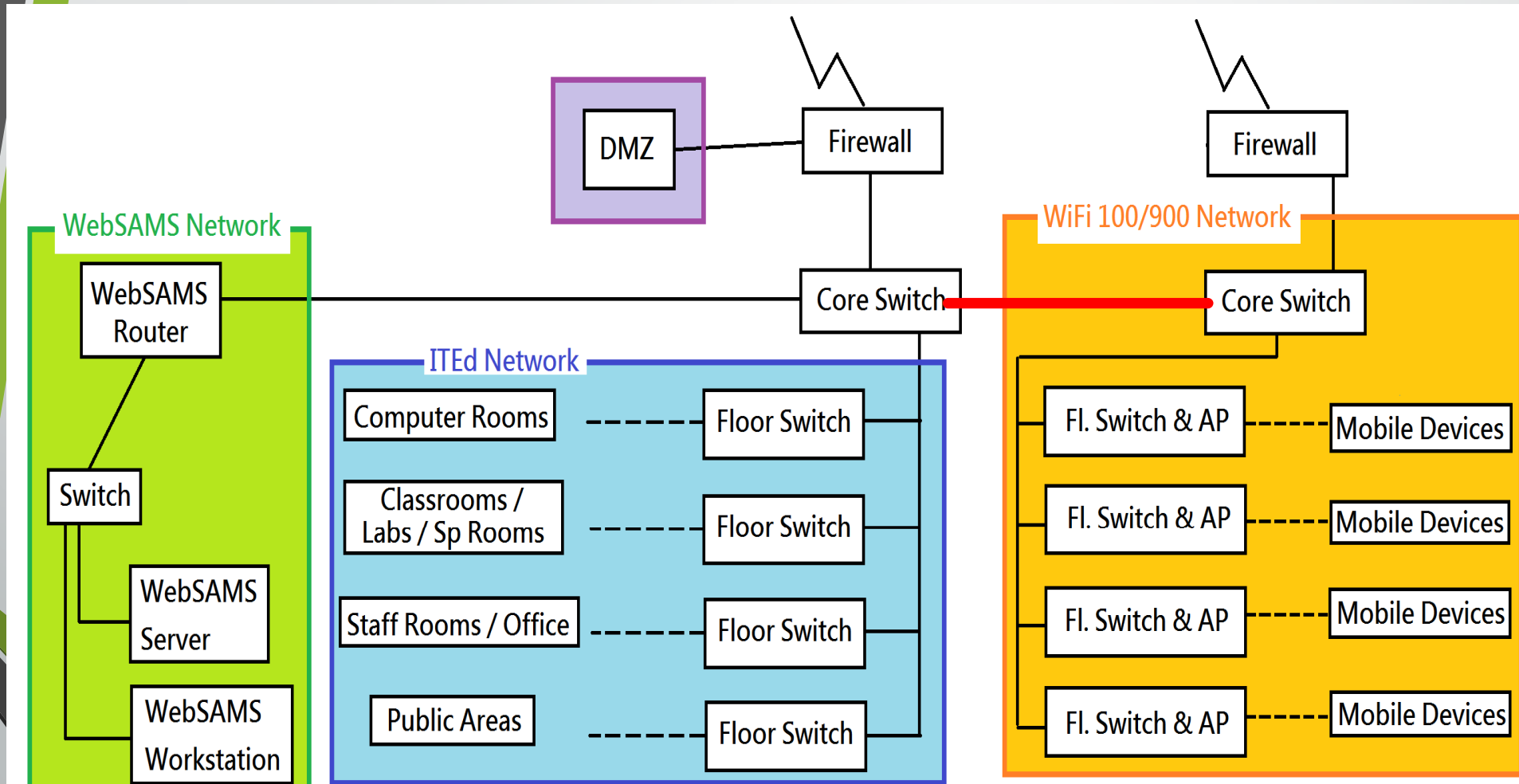


基本學校網絡佈局

Should be

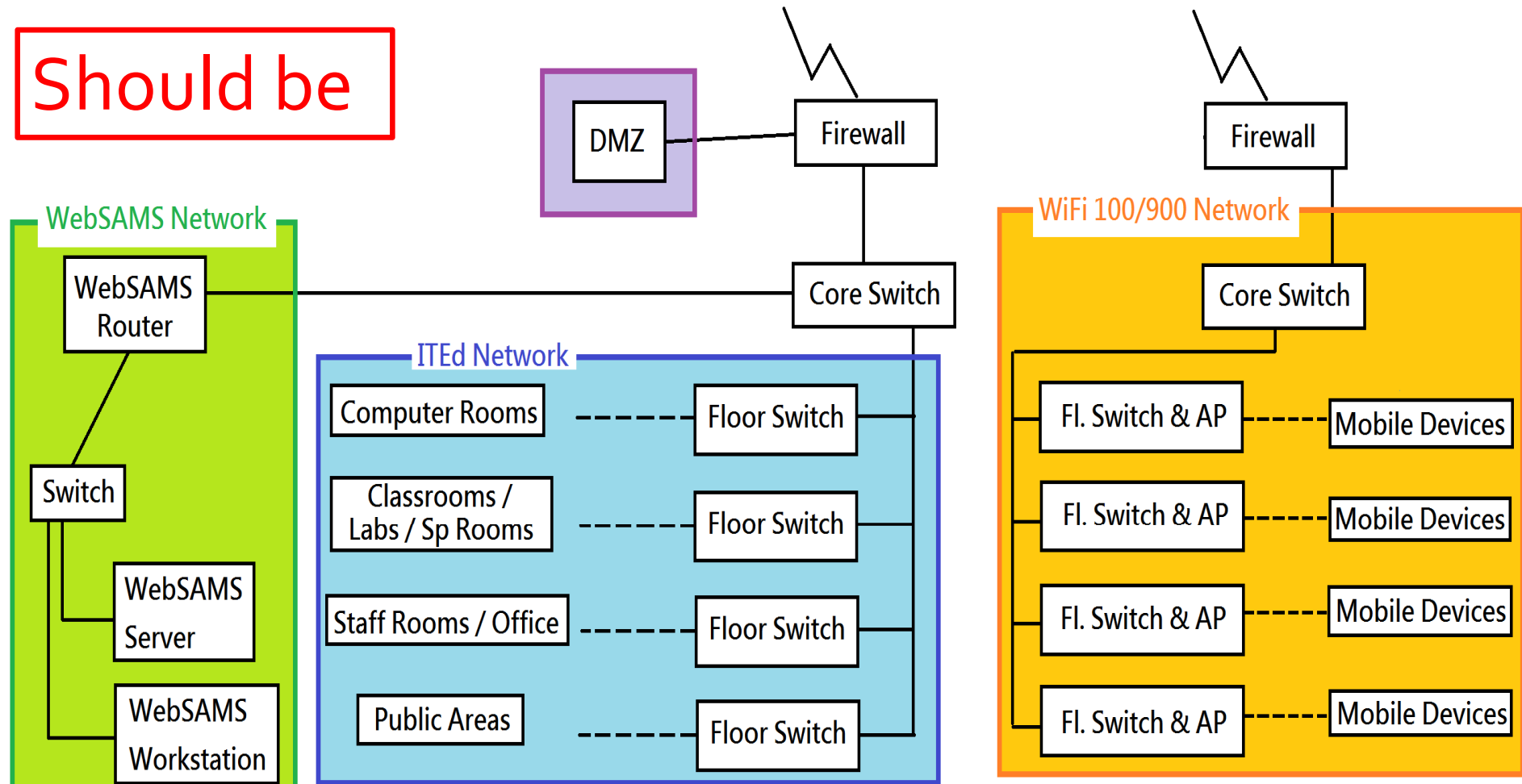


?? 學校網絡佈局

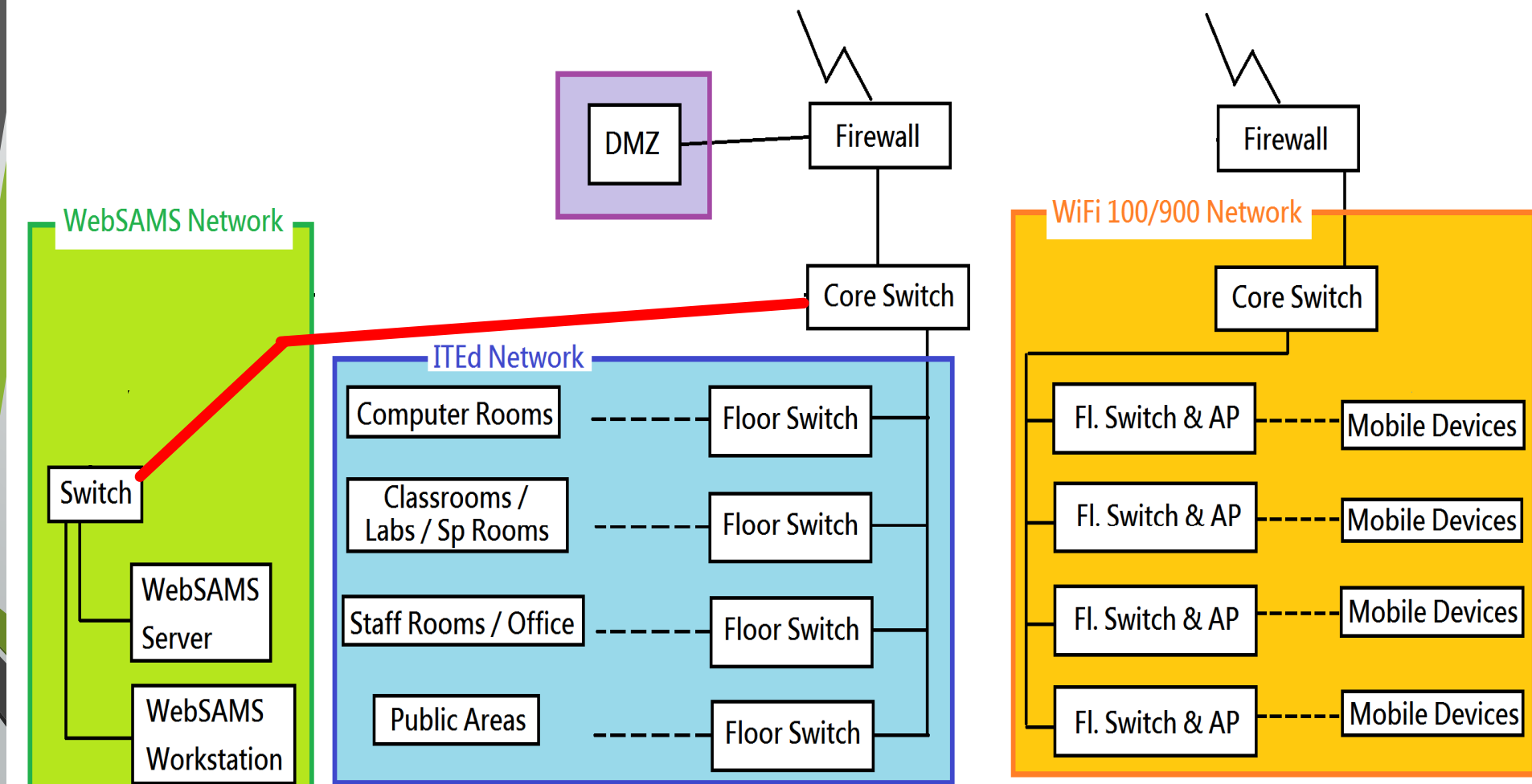


基本學校網絡佈局

Should be

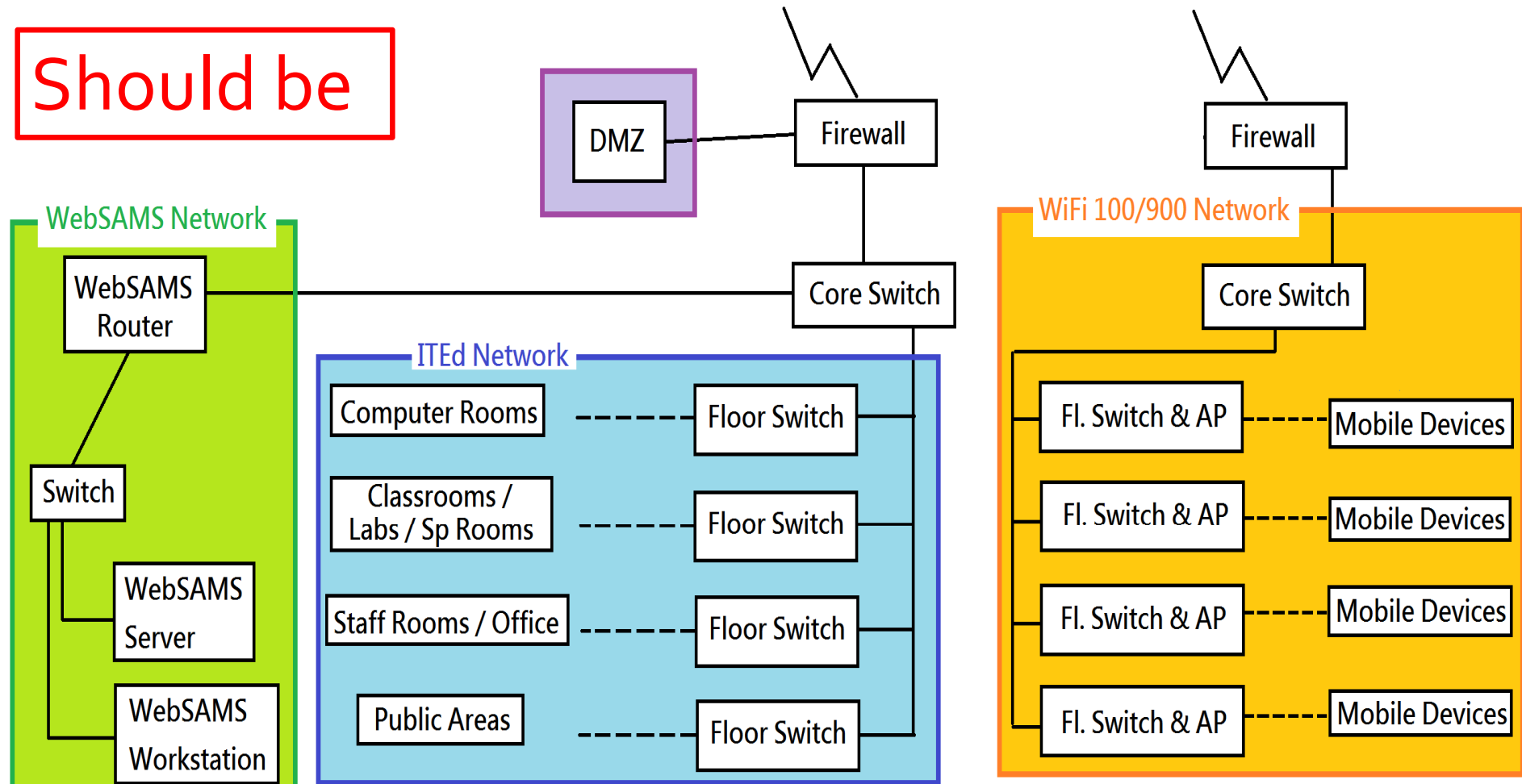


?? 學校網絡佈局

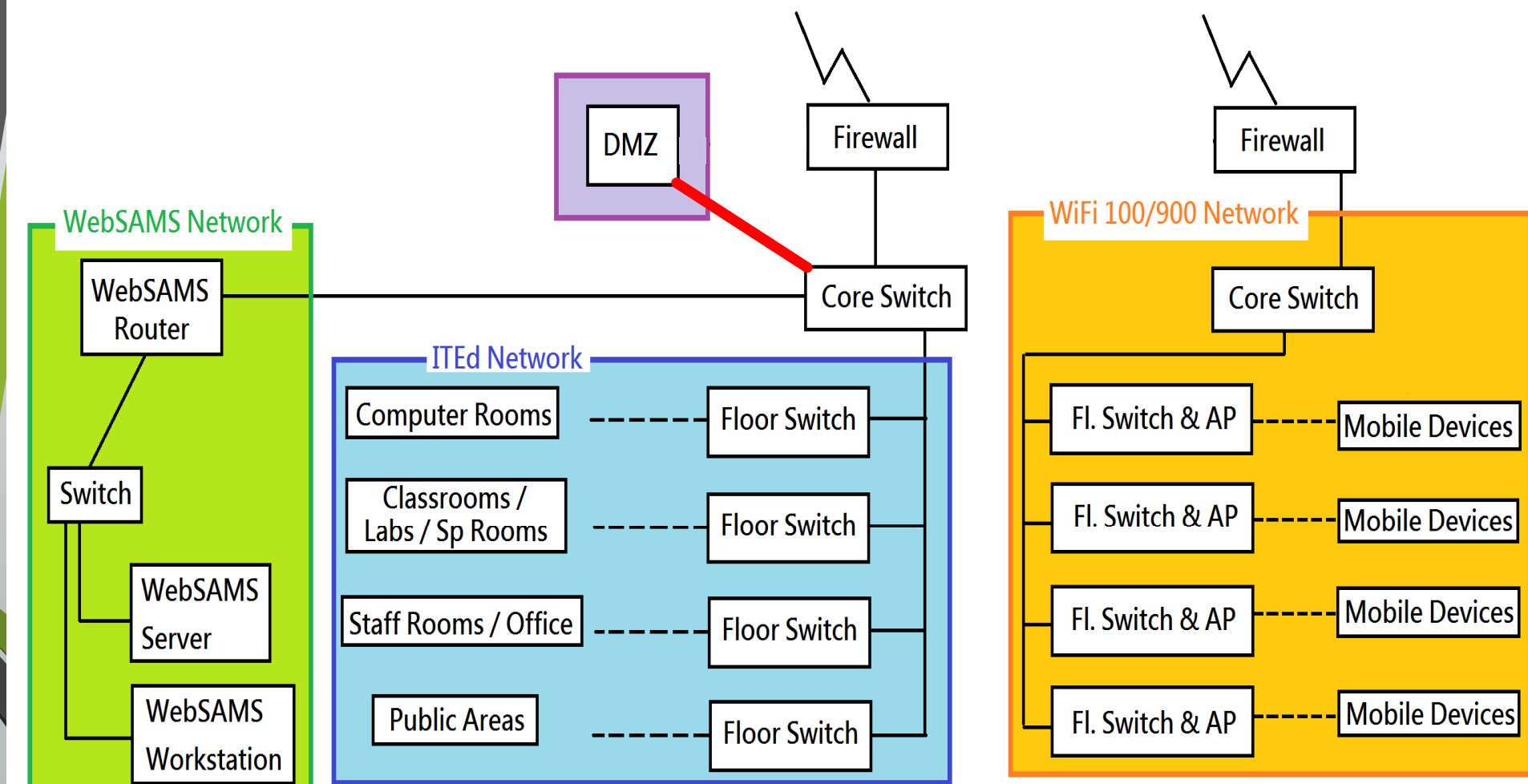


基本學校網絡佈局

Should be

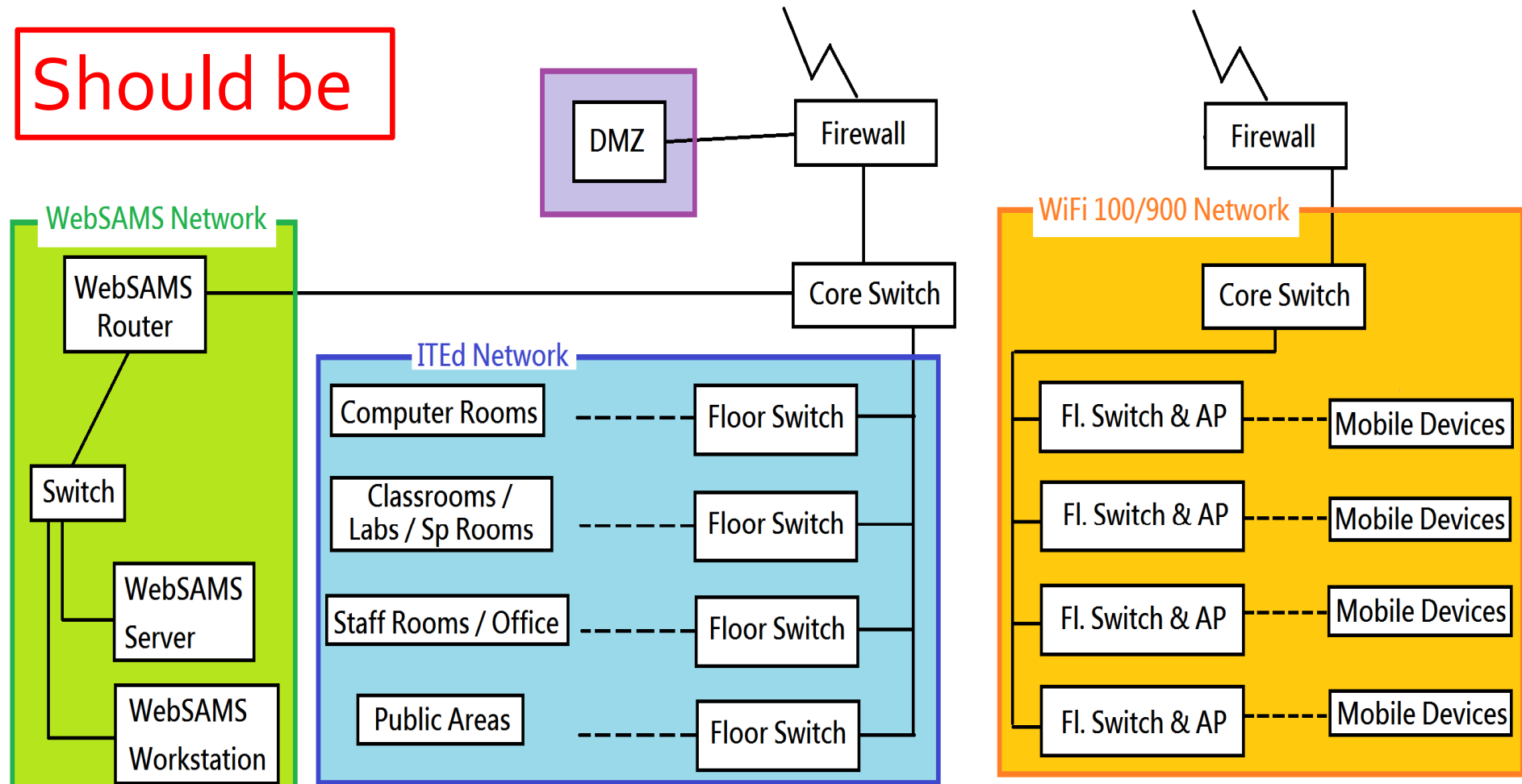


?? 學校網絡佈局

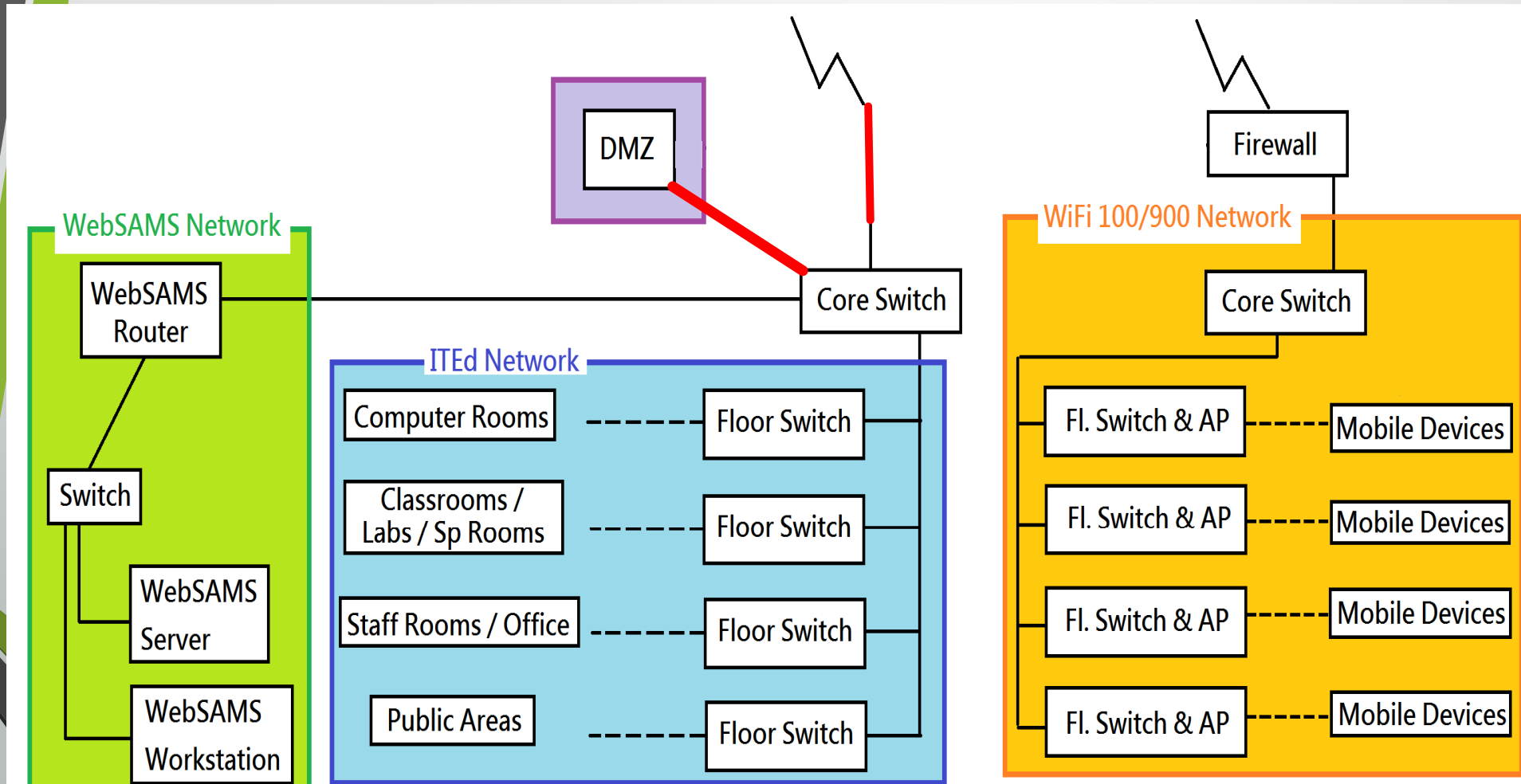


基本學校網絡佈局

Should be



?? 學校網絡佈局



既然中咗無得救
唯有盡量唔好中

考慮 / 可考慮

- 教職員教育（再教育）
 - 使用 **incognito browser**
 - 經常（久不久）發提示（恐嚇）電郵
 - **Sample**, 處理手法
 - 同事若不幸中了，會即找（或被找）你
 - 同事權限處理
 - 每年檢視
 - **IT 支援**（備份培訓？備份設備？）

考慮 / 可考慮

- **ITC / TSS / School 層面**
 - 將 Info Sec 納入每年 year plan, budget
 - 備份 (offline & offsite)
 - 防毒？
 - 更新 patch？
 - 使用 well known services
 - Google, Microsoft

考慮 / 可考慮

- **ITC / TSS / School 層面**
 - **Server Migration to Cloud**
 - **Join Community of Practice**
 - **Subscribe to HKCERT news**
 - **Self Health-Check**
 - **出席 Info Sec 活動**
 - **出席 Info Sec 培訓**
 - **使用 ITSSG**
 - **.....**



AiTLE Support on Info Sec

計劃中

- Info Sec
 - Seminar
 - Workshops
- ITC 培訓課程
- TSS 培訓課程

Keep update from AiTLE by

- 參加 AiTLE Whatsapp Groups



<https://www.aitle.org.hk/?p=3620>

Keep update from AiTLE by

- 成為 AiTLE 會員



[AiTLE Resources - 過往活動分享](#)

[AiTLE Resources - Computer & STEM Teaching](#)

[AiTLE Resources - IT in Education & Administration](#)

[AiTLE Resources : Schoolware \(by Mr. Chiu KW\)](#)



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