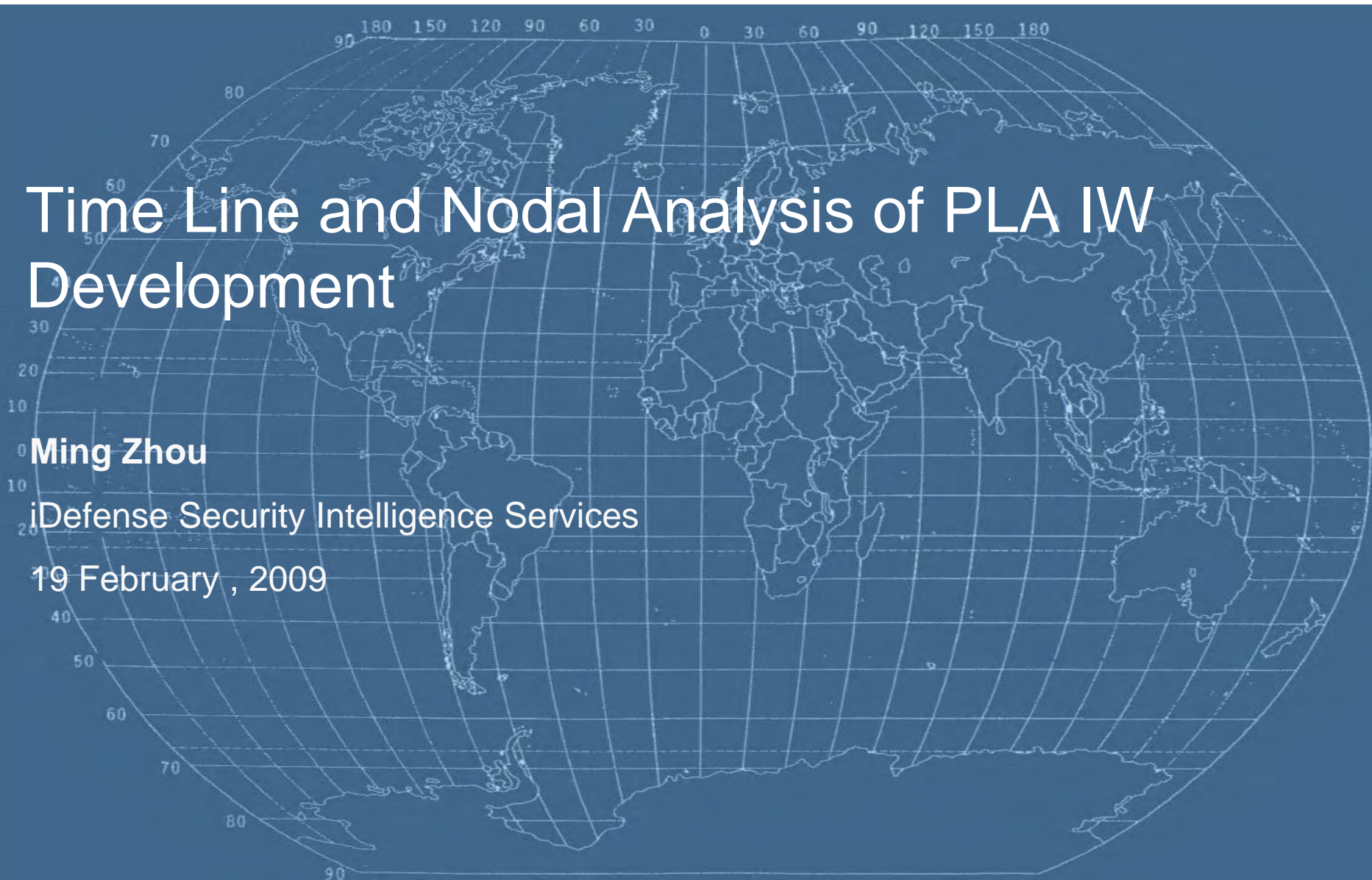


Time Line and Nodal Analysis of PLA IW Development

Ming Zhou

iDefense Security Intelligence Services

19 February , 2009

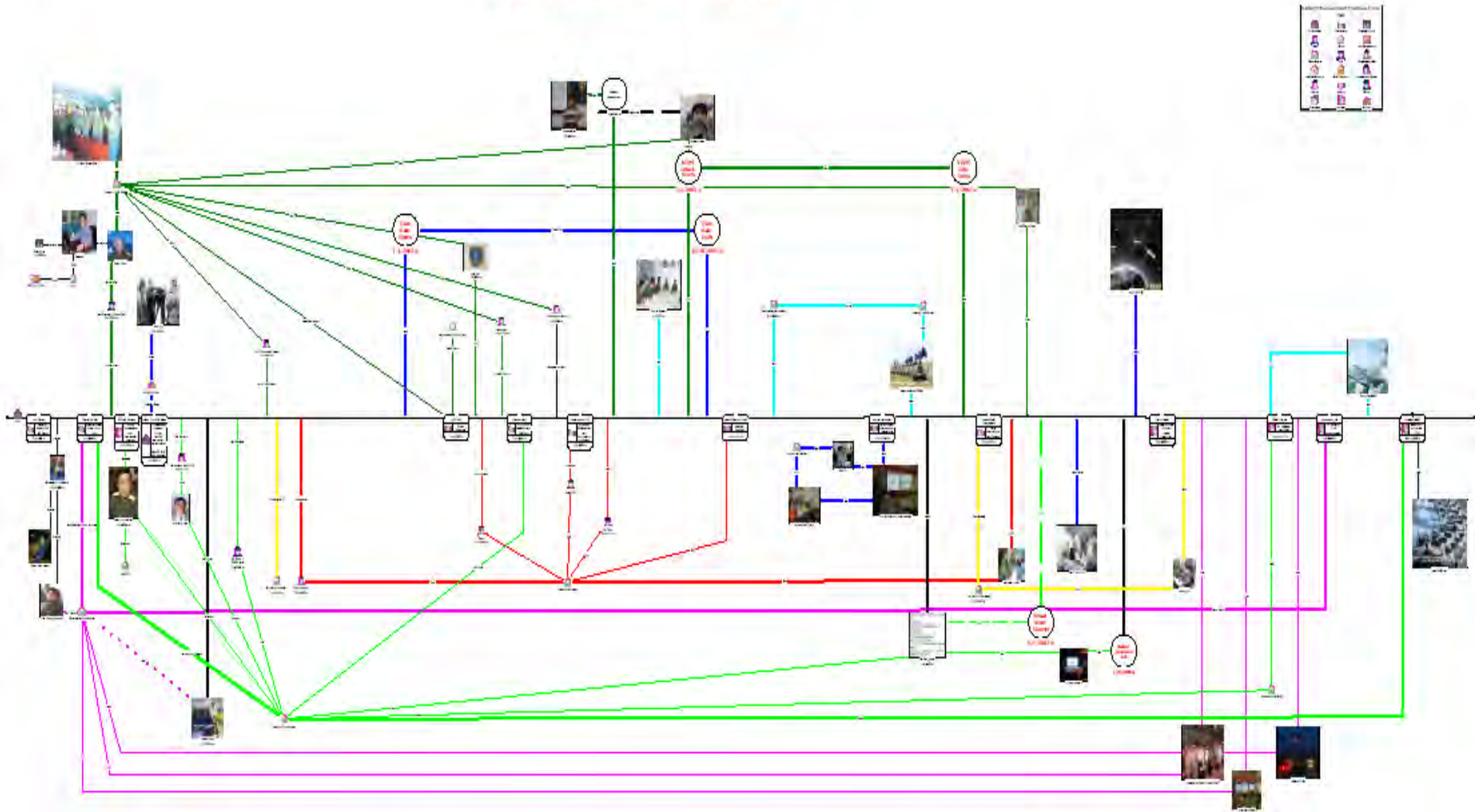


Agenda

- + What Have Western Seen?
- + iDefense Research Methodology
- + PLA IW Timeline
- + Deduction and Facts
- + My One Step Leap

Time Line

PLA IW Development Timeline and Nodal Analysis



What Western Have Seen

- + Titan Rain
- + Western governments accusation
- + Sandia National Laboratories
- + Congress Offices
- + DoD Contractors
- + Pentagon
- + Navy
- + NASA
- + Indian Government

By Default

- + **PLA!**
- + **PLA?**
- + **PLA {x,y,z...}**
- + **State Sponsor!**
- + **State Sponsor?**
- + **State Sponsor {a,b,c...}**
- + **Gaps...**

Can He Fit the Profile?

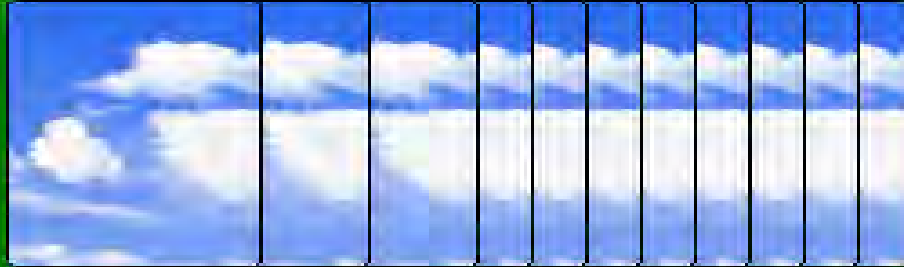


Questions before starting

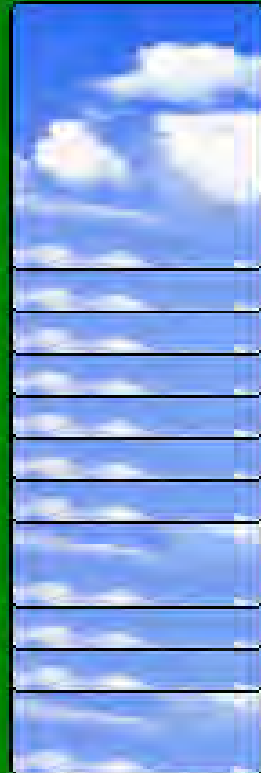
- + Under order?
 - + Just for Fun?
 - + A Soldier with uniform
 - + A Soldier without uniform
 - + Several Soldiers with uniform
 - + Several Soldiers without uniform
- + PATRIOTISM , PROPAGANDA
ACQUIESCENCE**

Asymmetric war -Card game

Pauline



Michele



Ben



WWWW

River Rock to New York City



Spot of Cheetah



Methodology

- + Micro to Macro, Macro to Micro,
- + Methodology {Identify, Verify, Validate, Organize}
- + Consistency
- + Continuity
- + Tangible Entities
- + Undeniable published news
- + Cross references

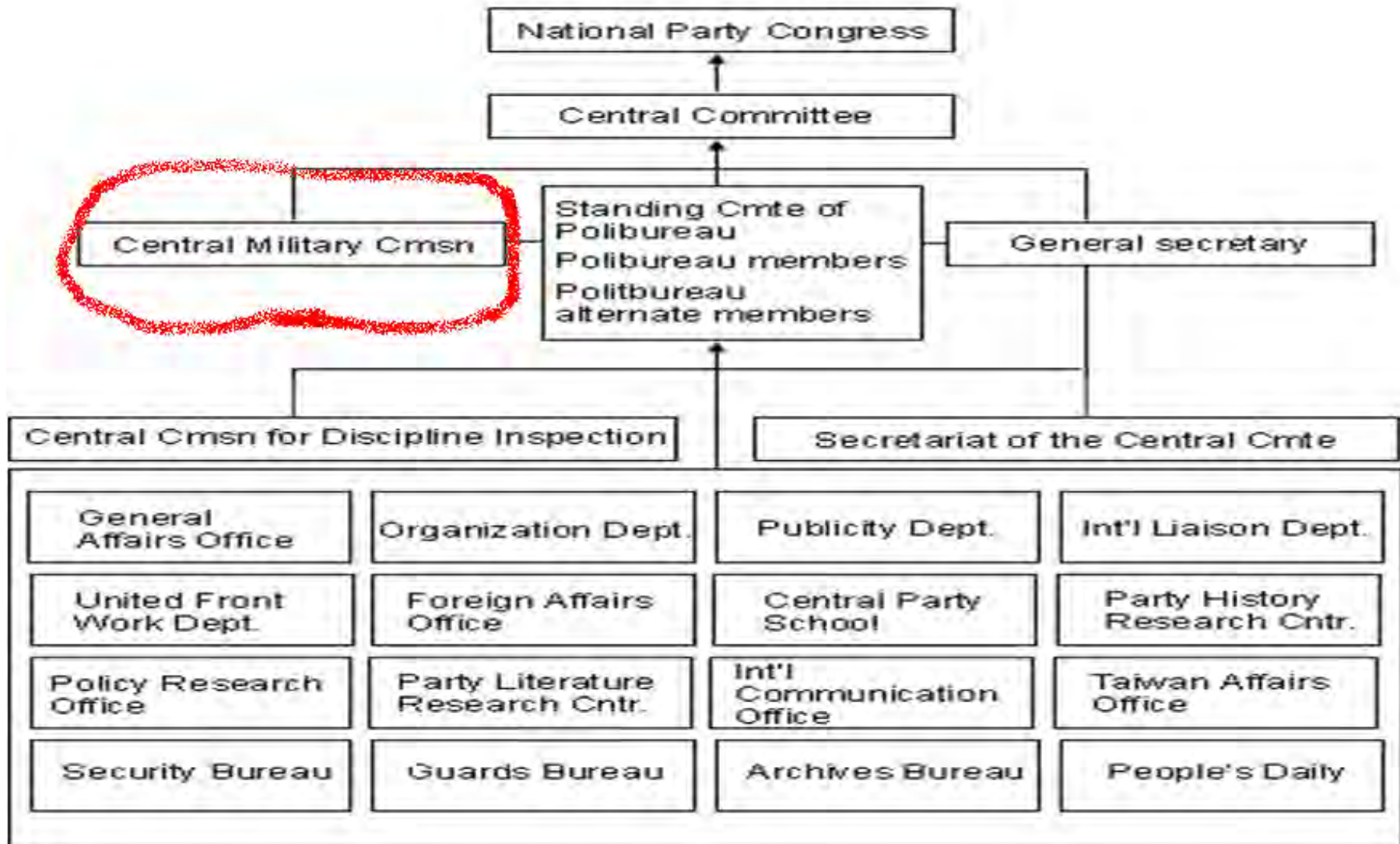
+AND

Rules

- + Time
- + Location
- + Unit Code
- + Leader's Name
- + Order Number
- + Designated Function
- + Machine Learning { x, y, z...}

+OR

Hierarchy



- + CMC
 - **General Staff Department (GSD)**
 - **General Political (GPD) Department**
 - **General Logistics Department (GLD)**
 - **General Armament Department (GAD)**
- + The **GSD** is responsible for organizing, leading, and commanding military actions. It is made up of departments for war operations, information, communication, military training, army affairs, mobilization, armament, security, mapping and surveying, foreign affairs, as well as the affairs of the various armed services and arms.

PLA Force Structure

- + 7 regions (NE, NW, Beijing, E, Nanjing, SE, SW)
- + Air force
- + Navy
- + 2nd Artillery
- + Ground Force
 - Active 500,000
 - Armed Police Force 1,500,000
 - Militia 1,000,000

Recursively Break down

- + Chinese People's Armed Police Forces (APF) and the Militia.
 - The **Militia** is a force engaged in continuous preparation and support activities under the leadership of the Party of China
 - It is a component part of the armed forces. Under the command of active military units.
- + A hierarchical subordination relationship is clear. APF is under the direction of the PLA
 - **CMC** publishes national policy regarding militia management and provides overall guidance;
 - **GSD** provides management ,
 - PLA **regional** commanders execute down to the **city level** through the local **APF** authorities.
 - The **GSD** publishes annual training tasks
 - The regional PLA **garrisons** execute the tasks
 - **APF** provides the operation units. Equipment and training facilities are supported by **different levels** of authority.

Time Line 1

- + 07/1997, The first PLA Division Chief of Staff training forum, dedicated to studying the Kosovo War.
- + 01/1998, First official net militia unit, 40 professionals
- + 02/1999, Unrestricted Warfare
- + 06/1999, Military started to use HLLP.YAI.
- + 01/2000, Join forces Taiwan War Drill.
- + 12/2000, Gen Xu, GSD promotion.



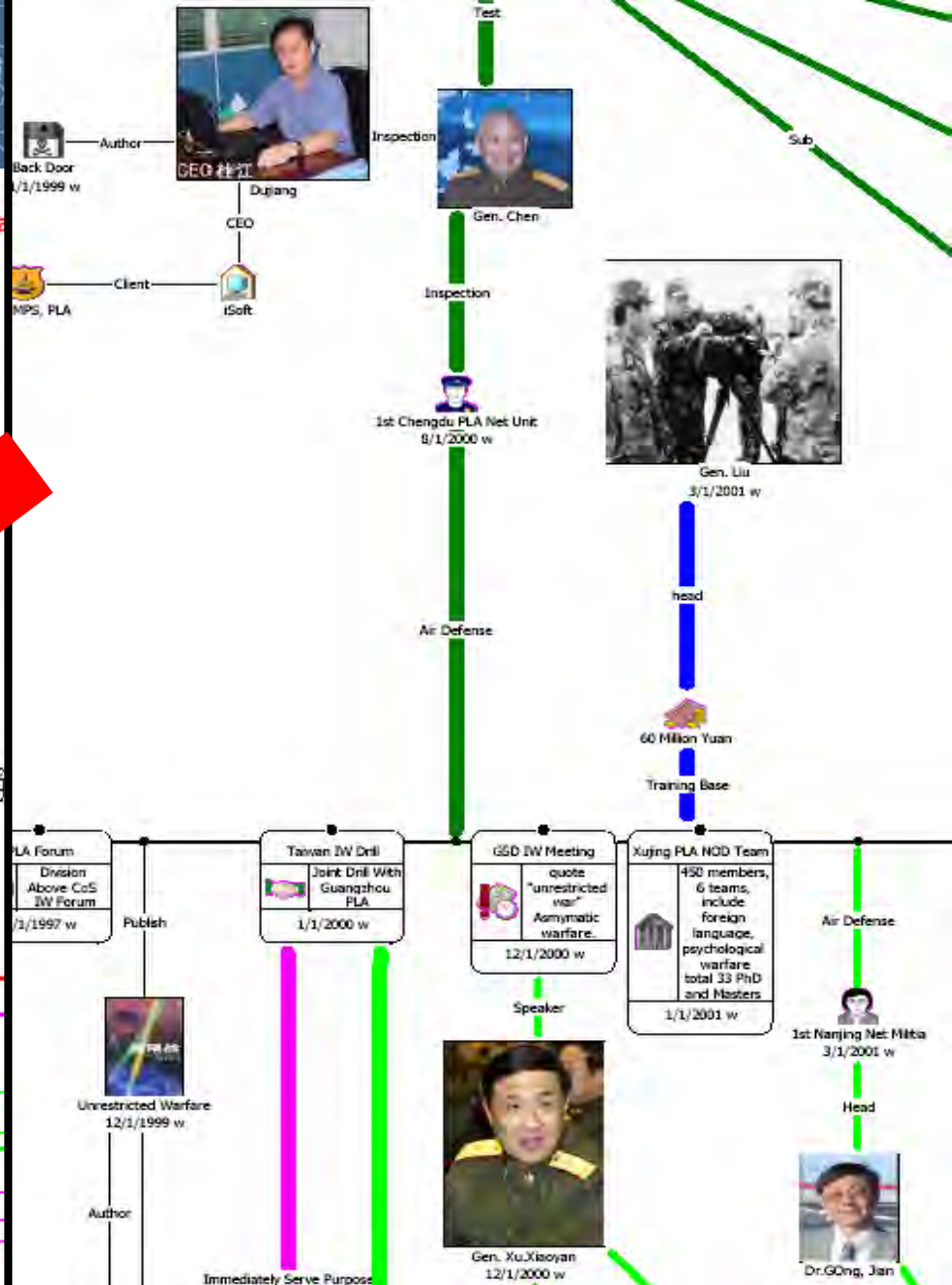
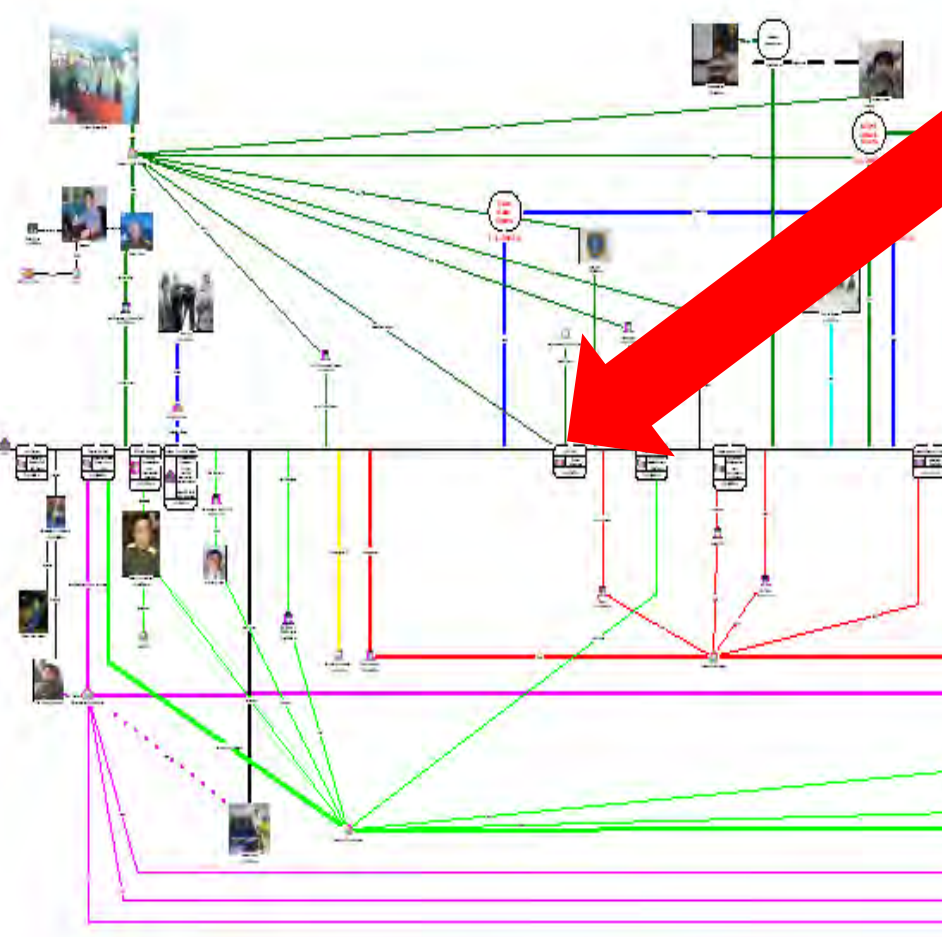
Timeline 2

- + 08/2000, First real drill and deployed “Militia Special Net War Training System” for **air defense**
- + 01/2001, Xujing Garrison Training base for 60 Million Yuan
- + 03/2001, **Air Defense** Emergency Alternate Plans, 63 Masters and Professors
- + 01/2002, Chongqing and Tianjin exchange and study **air defense**
- + 03/2002, PLA 73685 Unit tests for **air defense** master switch.
- + 05/2002, SW 24/7, 30 minutes response unit
- + 05/2002, PLA Gens. Inspect labs.
- + 05/2002, Civilian instructors and Trojan “Glacier “



Zoom 1

PLA IW Development Timeline and Nodes



Net Militia Units



Identity

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Timeline 3

- + 01/2003, Nanjing PLA outsourcing to University as war time commanding center
- + 04/2003, Senior Net Militia back to mother University to train junior Net Militias.
- + 07/2003, State Own Enterprises as war time commanding centers



Timeline 4

- + 11/2003, PLA Regions new equipments test
- + 12/2003, “Frontier Guard 230” Joint operation for **air defense**
- + 01/2004, New **space surveillance** and **radar system**
- + 03/2004, 9th Order of 2002 and 2003’s 231st document
- + 05/2004, SW **Air Defense** Officer Institute.
- + 11/2004, Special recruiting in Guangzhou PLA
- + 11/2004, Performance review and appraisal.
- + 12/2004, Training and drill integrate to real war track



Little Stop

- + Air Defense 7 times
- + Directly related 2 times



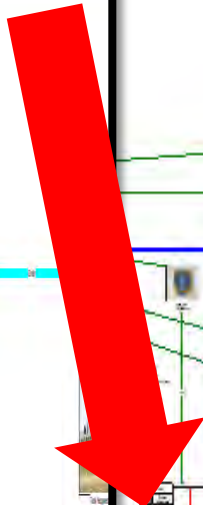
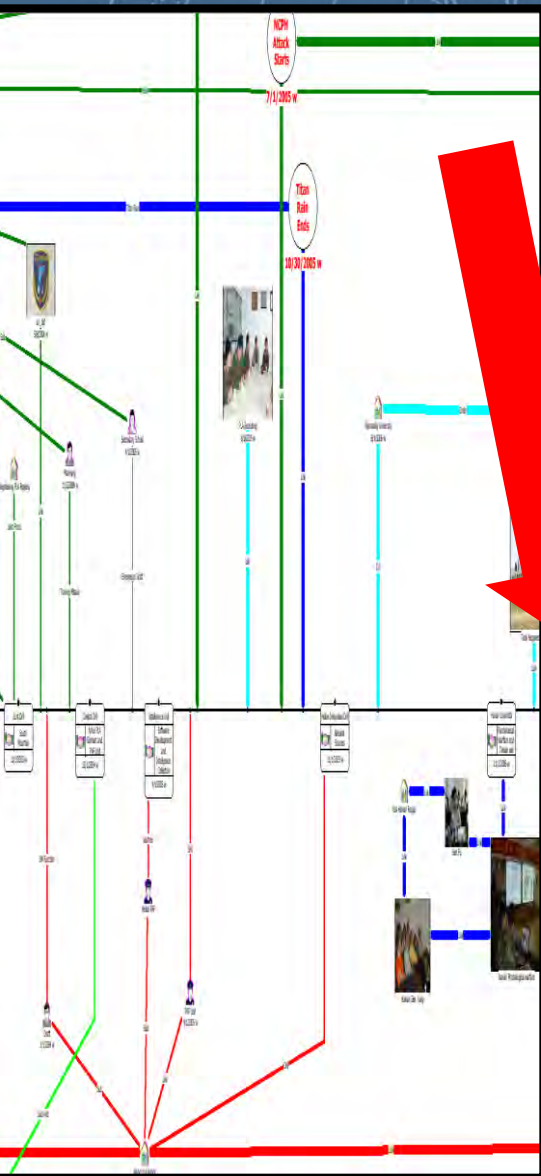
Timeline 5

- + 04/2005, A large scale emergency order to form Net Militia Units.
- + 04/2005, Multiple Intelligence Units
- + 05/2005, PLA and PAF Universities recruiting
- + 11/2005, National Emergency Drill Structure
- + 05/2006, **Air defense** drills and exchange
- + 05/2006, NCPH GinWui Rootkit.

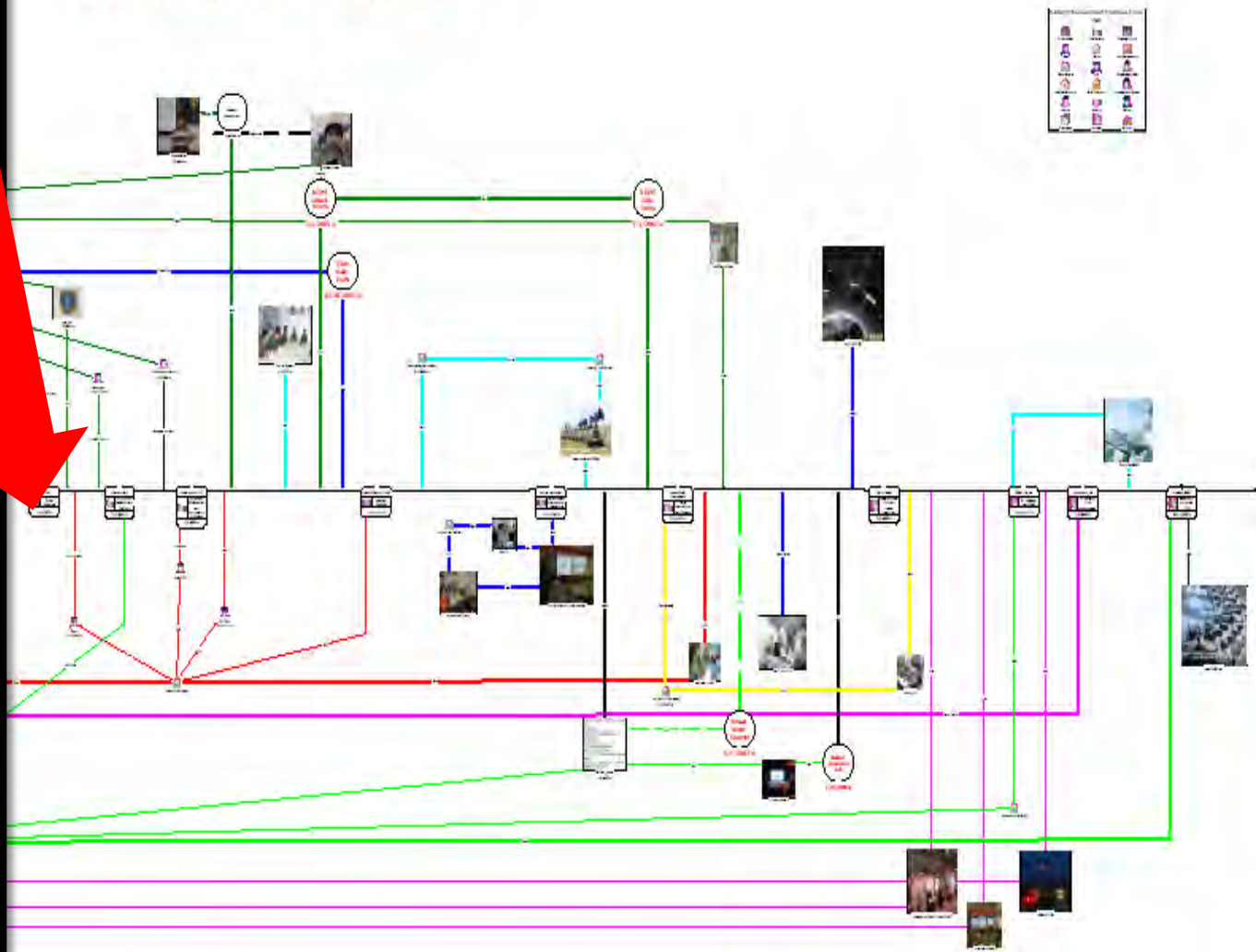


深夜疲憊的眼眶仍燃滅不了我們的自信.....

Zoom



PLA IW Development Timeline and Nodal Analysis



Timeline 6

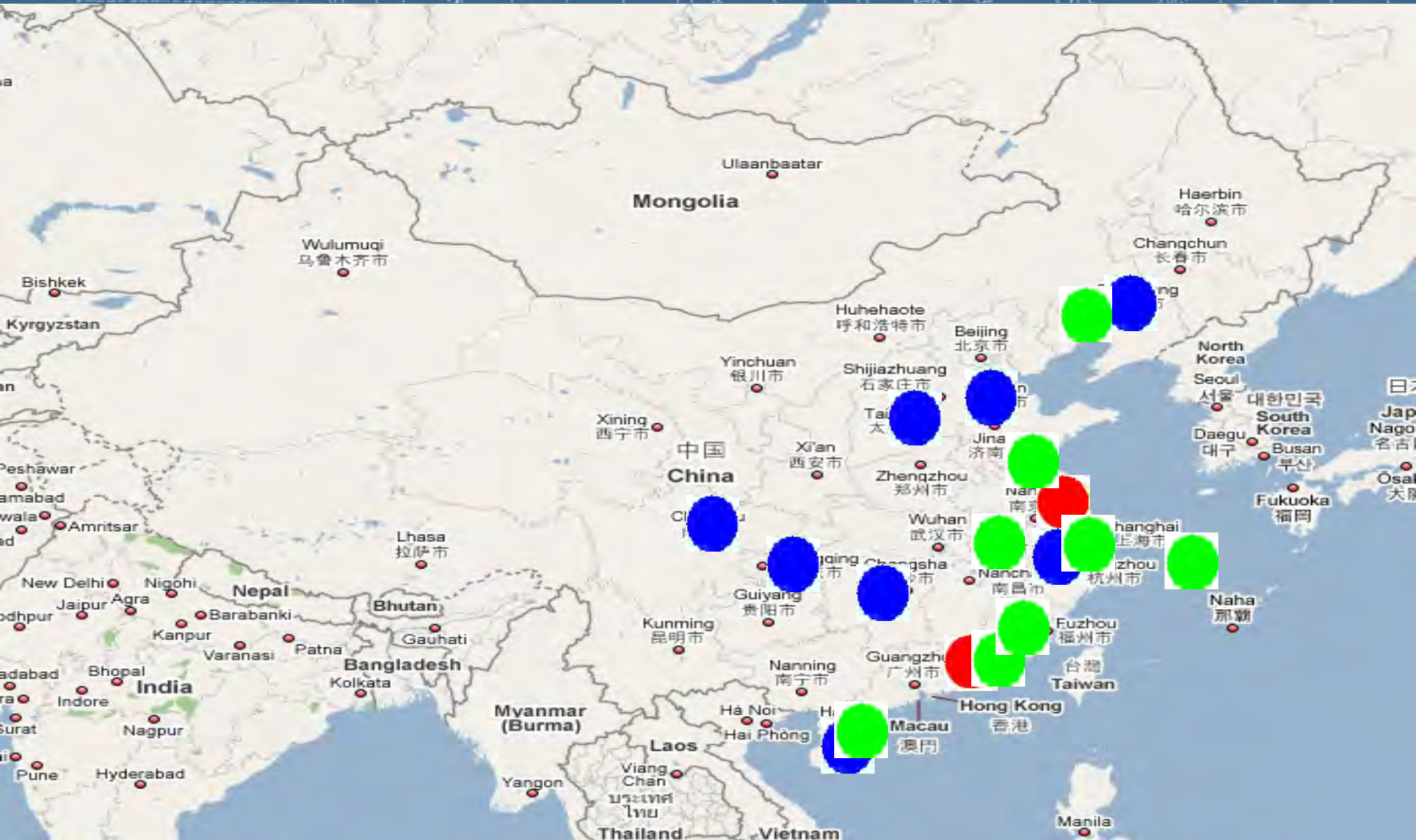
- + 11/2006, Large scale online Psychological warfare against Taiwan
- + 05/2007, Shanghai in the **air defense** game
- + 07/2007, Wuhan in the **air defense** game
- + 07/2007, Guangzhou PLA set “**100 mile off shore**”
- + 08/2007, Electromagnetic protection solution
- + 11/2007, Bring in **Complicate Electromagnetic Environment** concept



Timeline 7

- + 09/2007, Tank Regiment 1000 Mile maneuver CEE Drill
- + 12/2007, Purchase “Helicopter” related Information
- + 01/2008, PLA Shenyang Drill for Trojans to change logistic requirements and data to cause confusion. Then EMP destroyed motherboard wireless function modules, landlines and finally radio stations.
- + 09/2008, Guangzhou Deployed KS-1 Missile with Net Militia Units.
- + 09/2008, 2nd Artillery, the largest drill in history and new standards
- + 10/2008, 35 satellites cover surrounding
- + 10/2008, Tank Regiment “Front Line 2008” live ammunition CEE Drill
- + 01/2009. East Sea Fleet drill CEE

Activities Stage Map

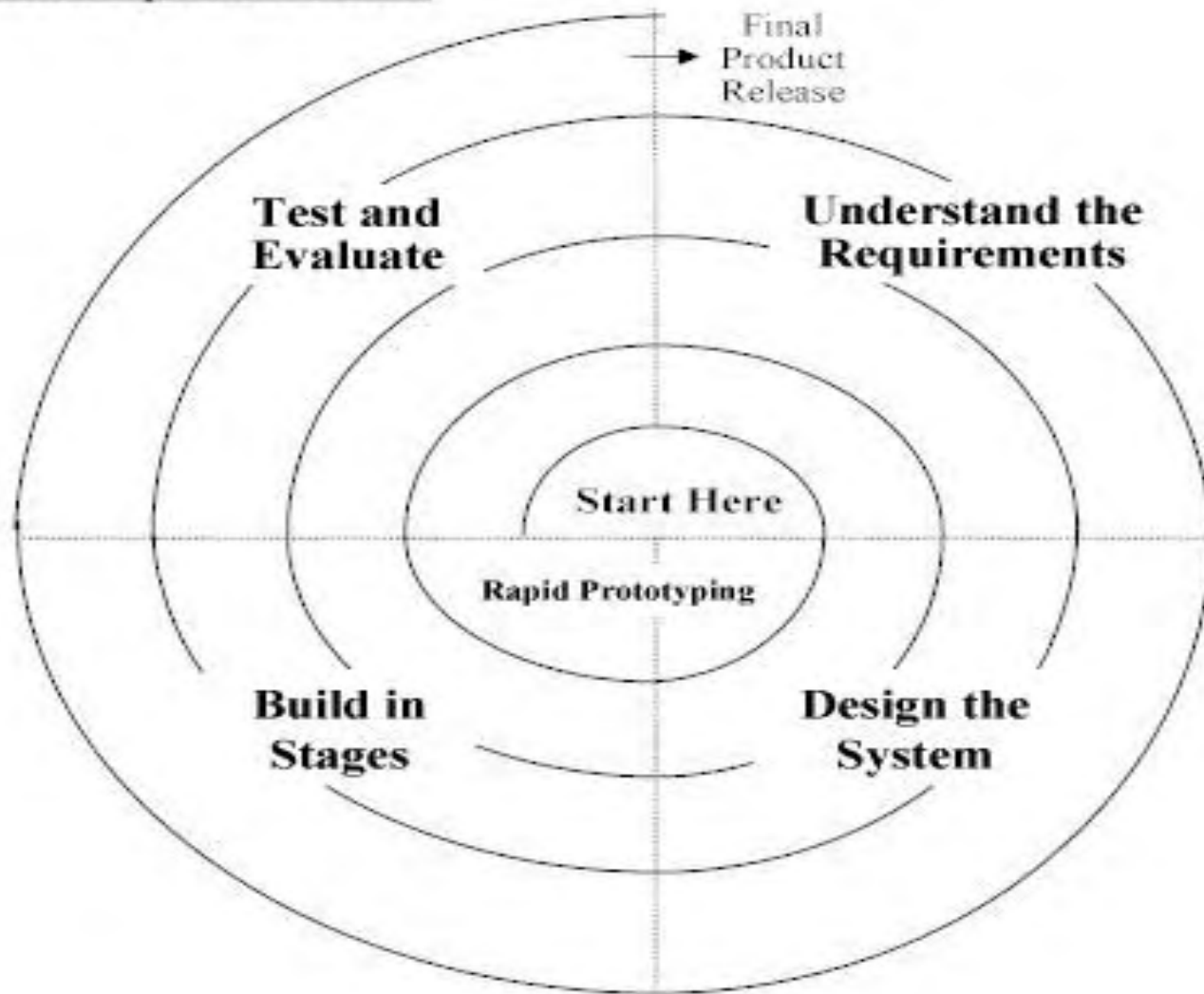


Product development Stages

- + Strategic Planning → Time Line 1
- + Research → Time Line 2
- + Product Define → Time Line 3
- + Project management → Time Line 4
- + Industrialization → Time Line 5
- + Implementation → Time Line 6
- + Dissemination → Time Line 7
- + New Circle of Preparation for **CEE**

Different stages

Spiral Development Model



Spiral Model

- + Quick Prototype → Taiwan
- + Requirements → Stage 2
- + Design the System → Stage 3
- + Build in → Stage 4,5
- + Test → Stage 6,7
- + Release → Back to the initial focus

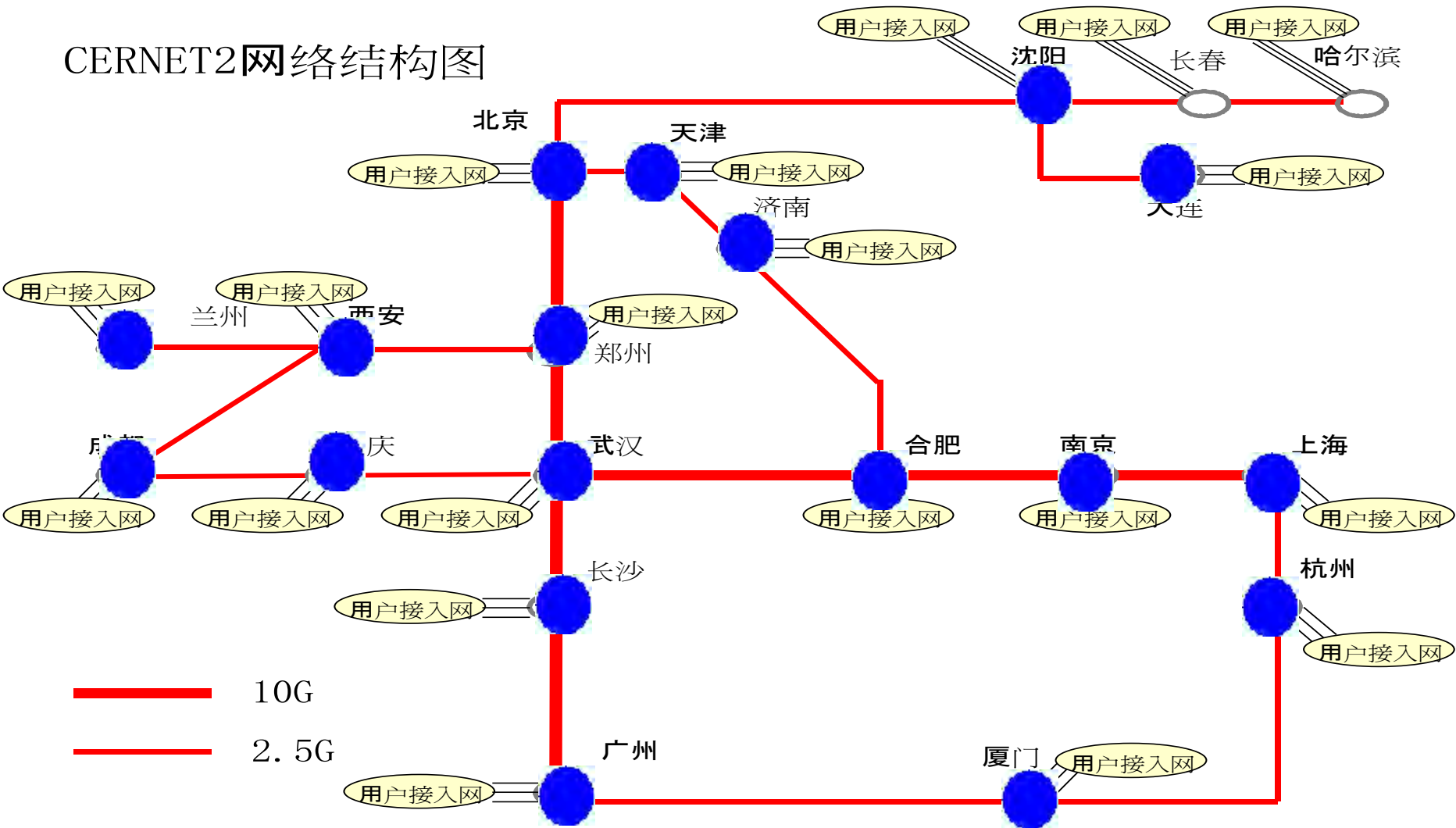


Facts List

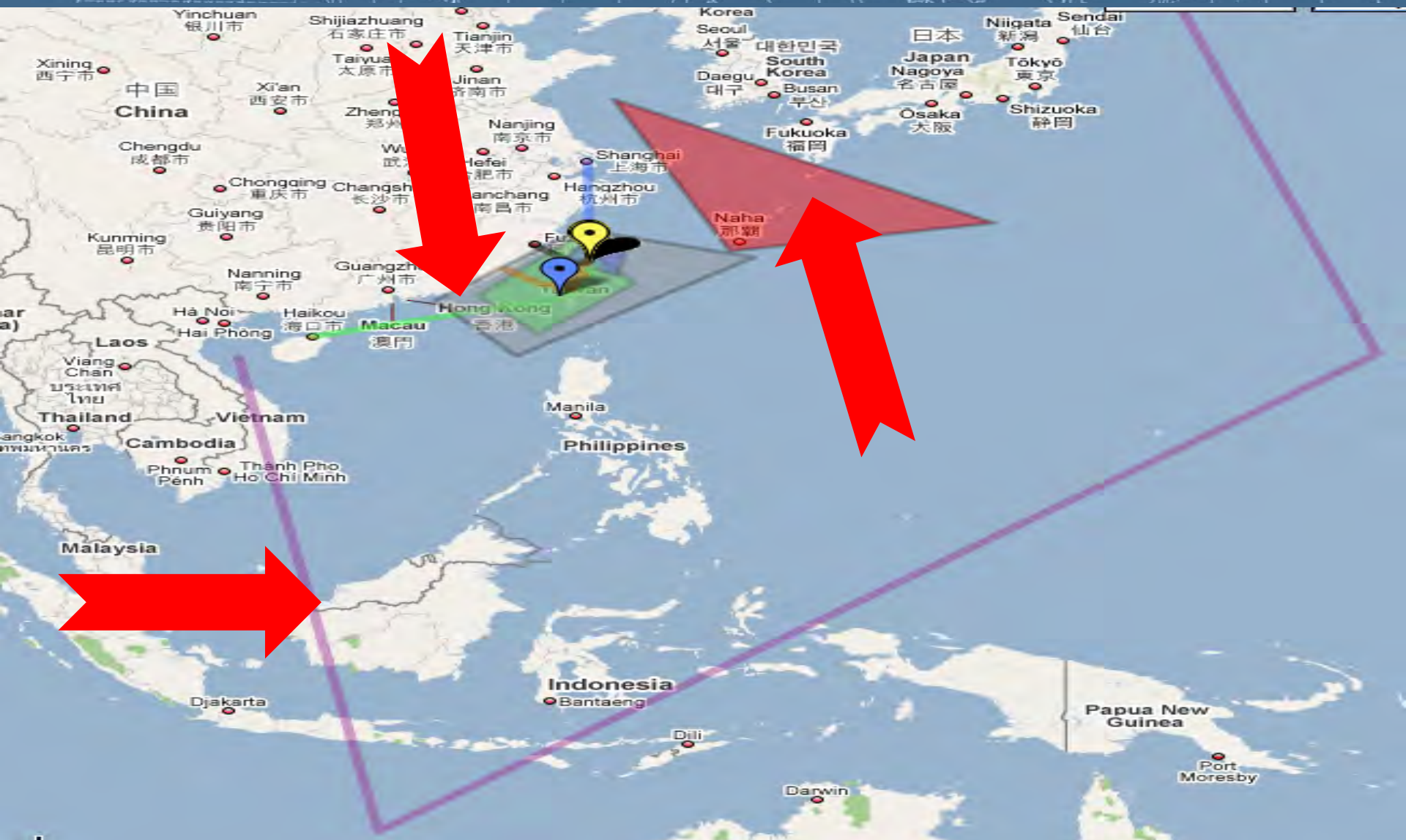
- + PLA is guiding and tasking Net Militia Units and civilian companies.
- + PLA has developed large scale national cyber emergency drill
- + All activities are based on physical infrastructure...CERNET.
- + PLA IW focus was **air defense**, recently shift to Operate under **CEE**
- + From inland to coast line
- + From person to business to national level structure
- + From civilian research to official order
- + From land to ocean to space
- + From virtual to tank to missile
- + **Taiwan was the initial issue, is and still will be**
- + **PLA IW module is complete.**

Operate on CERNET

CERNET2网络结构图



Taiwan War Map-Head Off Operation



Followings are just my OWN observations

- + 90 % information from OSINT
- + 10% Reliable sources
- + Remember : Investigator + AI Robot Thinking + Tank Sable Penetration+ Disney kitchen man

**+ Takes Passion, Domain
Expertise, Neutral Thinking,
Efforts and Time to Digest**

107 mm Rocket



Simulation



Diesel AIP



Chinese Defence Today (www.sinodefence.com)

300 km Anti-Ship Missile



South Sea Fleet is Preparing for “After Nuke”



South Sea and Deep Inland Combined Drill



Guangxi and Guangzhou Logistic Support Chain



WiMax On the Top of Everest



Xiao Tian



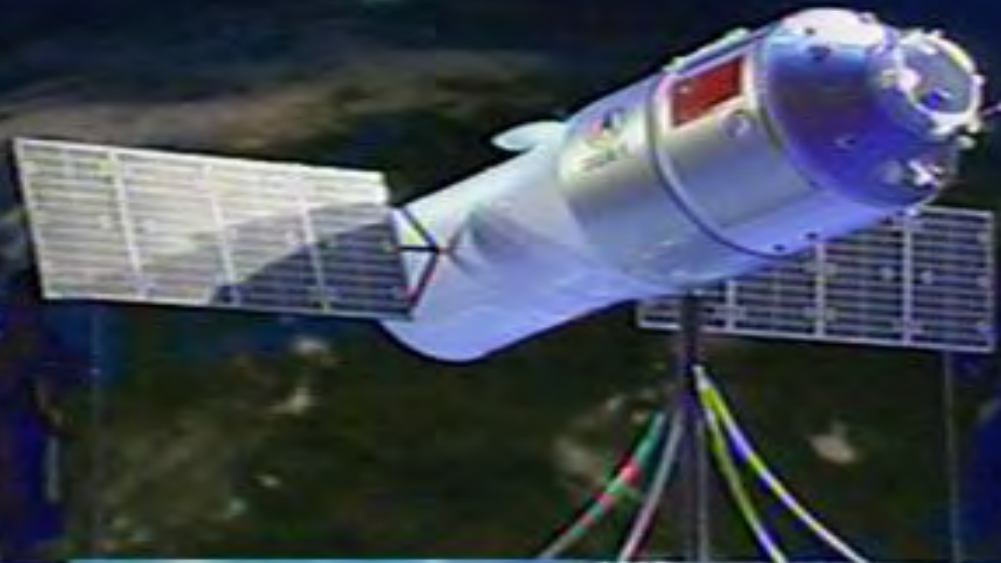
2010, 35 satellites



2010-2011 Space Station

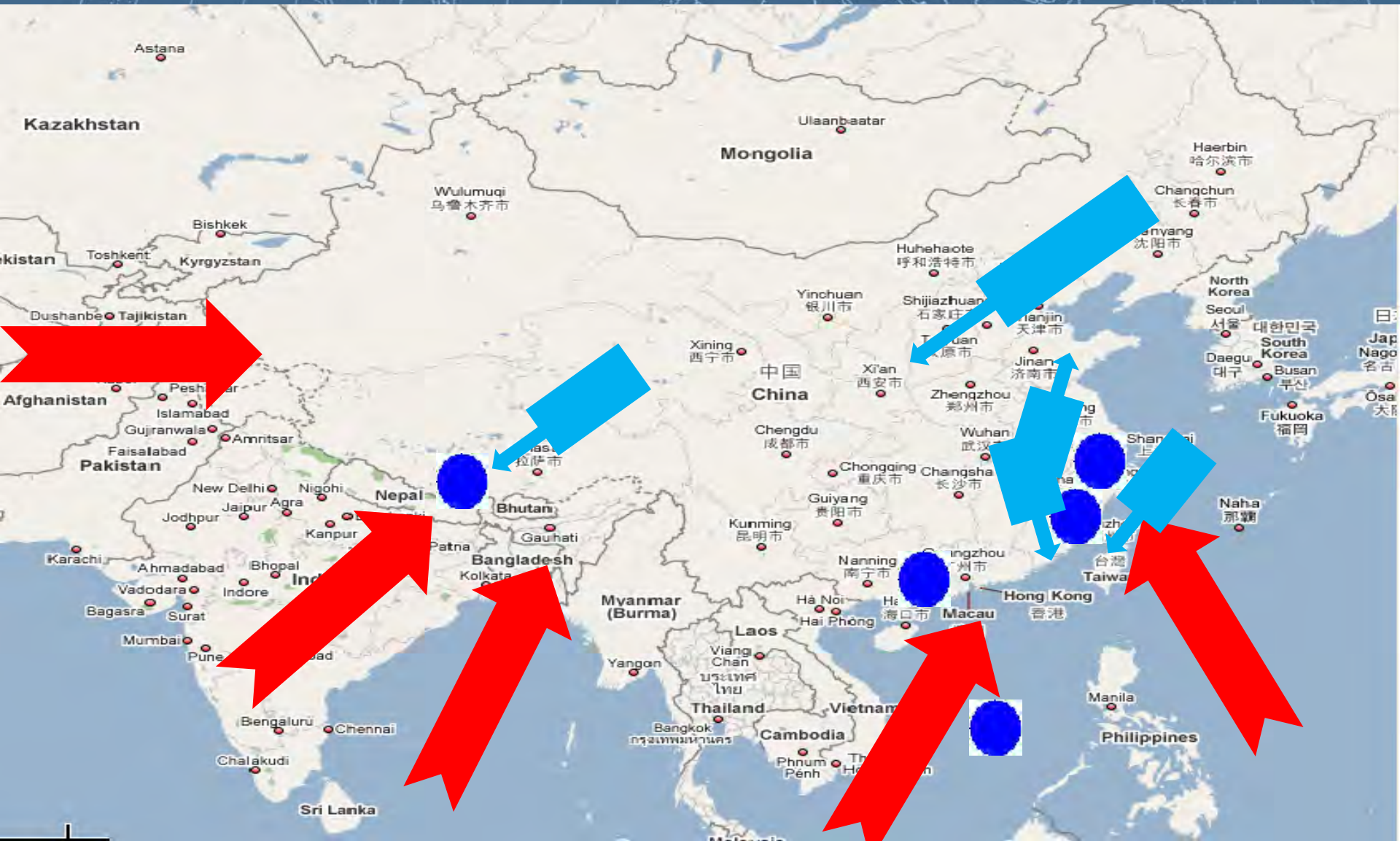
CCTV 1

现场直播



“天宫一号”

35 Satellites Cover Zone (E70-145, N5-55)



Another Time Line

- + “...China has no real war since 50 years ago, soldier needs real practicing...” General (S)
- + Air Defense School Student: From O-2 to O-3, O3-O4, O-4 to O-5.
- + Heritage foundation research : 2025 pacific area 5:1 submarine
- + Aircraft carrier 2020
- + Imbalance between men and women: 40 Million extra bachelors 2020.
- + **Another 10 years.**

My Hypothesis

+ **IF (Taiwan War Break out)**

+ **Then (what China will most likely face)**

- Cyber (Propaganda, Economic, Media, Penetration , Psychological)
- Space (Satellite)
- Air (Regular strike , Airborne and landing, Electronic warfare)
- Ocean (Pacific Fleet)
- Land (Direct Force Insertion, “Back Stabbing”)

+ **So**

- Great Firewall,
- IPV6
- .CN Root Domain
- Satellite Quick Launch
- Air Defense, CEE
- More Diesel Submarines
- Satellite Cover zone
- Indian

Question

