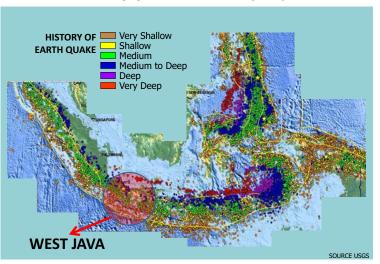
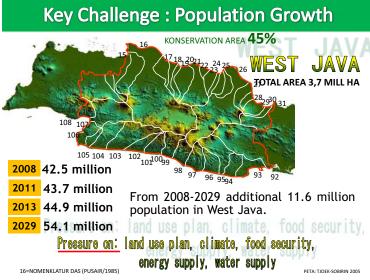




SOURCE USGS

# **RING OF FIRE IN INDONESIA**





## LAND USE CHANGE: GROWTH OF BUILT AREA IN WEST JAVA 2005 Industrial zone and area 12.621 17.403 37.9 Mixed plantatio 674,214 843,904 25,2 358,914 109,345 137,705 25,9 42.601 -18,4 Population Growth Rate of 1.8% is equal to land use change rate of 0.5% per year, especially on forest and paddy field **EFFICIENCY AND** SUSTAINABILITY

## **EFFECTS ON BIODIVERSITY IN WEST JAVA PROVINCE**

Land use change and environmental degradation in West Java also imply on loss of biodiversity due to reduction of natural habitat, resulting in negative implications on the quantity and quality of biodiversity in West Java.

Presbytis comata

IUCN world conservation board in 2008 noted that there are 5 mammals, 7 birds and reptiles, and 8 amphibian endangered species in West Java.







Source: West Java ASER, 2009

# Vision and Mission of West Java Province

Mid-Term Development Plan (RPJMD): 2008-2013

Vision: "Independent, Dynamic, and Prosperous West Java in 2013" Mission #4: To improve the environmental carrying capacity of West Java Province in supporting and sustaining development process

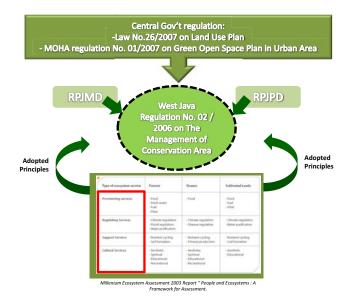
- 1. Control the spread and growth of the population
  2. Reduce pollution level, environmental degradation, and disaster risk
  3. Improve the function of conservation area in West Java
  4. Implement a sustainable land use plan
  5. Promote alternative environmentally friendly-energy source

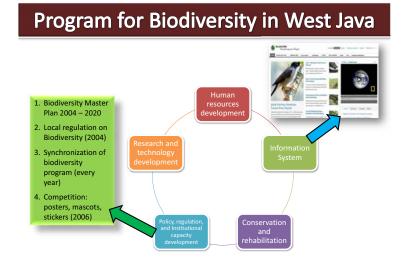
- Long-Term Development Plan (RPJPD): 2005-2025

Vision: "West Java to become to most developed province in Indonesia" Mission #3: Improve environmental conservation and sustainability

> Land Use Plan 2025: To Achieve Conservation area coverage of 45% in West Java "WEST JAVA GREEN PROVINCE"







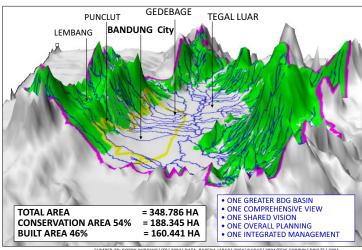
Source: BPLHD Jabar, 2007

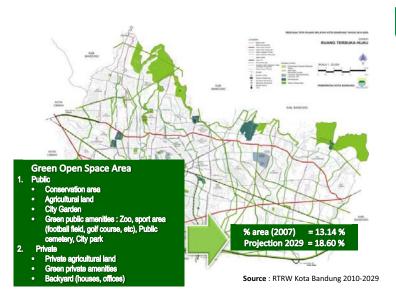




# SPATIAL PLAN OF KOTA BANDUNG 2029 Conservation area Trade & Service Bandung City at Glance : - Population 2,7 million (2009) - Capital city of West Java Province - Green open space area : 30% planned from total area

# **BANDUNG BASIN AREA**





# **Public Green Open Space Area**

# **TAMAN TEGALEGA**





# TAMAN LANSIA CILAKI





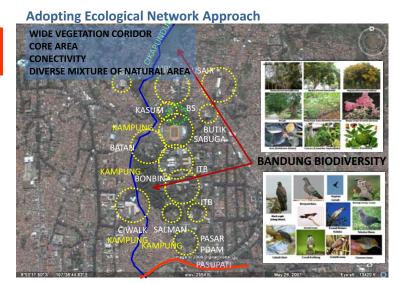


# How ? Adopting Ecological Network Approach

# Components of a functioning ecological network... A wide vegetation corridor along major watercourses Several large natural areas known as core areas Connectivity for movement of species among the core habitat areas, either through wide, continuous corridors or a series of 'stepping stones' A diverse mixture of natural areas throughout the developed parts of the city that can serve as wildlife habitat or connect other, larger natural areas Source: Forman, 1995, Land Mosaics Connecticuture 1995, Land Mosaics Source: Forman 1995, Land Mosaics Paging of the city that can serve as wildlife habitat or connect other, larger natural areas Source: Forman, 1995, Land Mosaics Paging of the city that can serve as wildlife habitat or connect other, larger natural areas Source: Forman 1995, Land Mosaics Paging of the city that can serve as wildlife habitat or connect other, larger natural areas Matrix

# IDEAL CONSERVATION AREA: 75% CURRENT SITUATION :<25% CHARACTERISTIC OF DAS CIKAPUNDUNG: WIDE/VAST AREA AT UPSTREAM, NARROW AT DOWN STREAM,

CITRA ASTER (2003)/ MILIK: LIPI/ INTERPRETASI BAND 231 VNIR: SOBIRIN/ SEJARAH BANJIR: SOEWARNO/ DUDI EFFENDI/ DPKLTS/ FOTO: DINAS SDAIR





Source: RTRW Kota Bandung 2010-2029

WATERSHED-BASED PLANNING : SUB-DAS CIKAPUNDUNG

**Plan: Vertical development** 

CIKAPUNDUNG EDUCATIONAL AND CULTURAL VALLEY

# Plan: Vertical development



Source: RTRW Kota Bandung 2010-2029

# "One Village One Playground"



# Challenges and Lessons Learnt

# Challenges

- Difficult to obtain private owned-land
- Requires commitment and resources in socializing and implementing the concept
- Requires multi-sectors & multi-stakeholders cooperation

# **Lessons Learnt**

- Creative approach, rather than Technical approach is more successful in reaching "the mind and the heart" of local people
- Land obtained through CSR scheme is still owned by corporation (albeit should be committed as green open space). Thus it can still be counted as company's assets



# Urban agriculture, Urban forestry

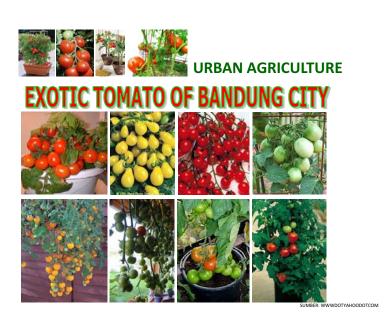




# **EXOTIC CHILI OF BANDUNG CITY**



Source : RTRW Kota Bandung 2010-2029



# URBAN AGRICULTURE

# **EXOTIC STRAWBERY OF BANDUNG CITY**

















SUMBER: WWWDOTYAHOODOTCOM

# HOME AGRICULTURE WITH OWN ORGANIC FERTILISER



GARBAGE→SEPARATION→COMPOSTING→HOME AGRICULTURE→ZERO WASTE (HOUSEHOLD WASTE)

SOBIRIN DPRITS/ ALEA 92 BDG/ 2006

Thank You...