











ROAD IN THE DEVELOPMENT OF HANOI WESTERN-PERIURBAIN AREAS CHALLENGES AND ISSUES

CASE STUDY OF NATIONAL ROAD 32

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HANOI MASTER PLAN EVOLUTION

1991 1978 922 km2 2.123 km2 2.05 million 2.5 million habs habs Master plan of 1954-1960 Hanoi seek to en-The city will mostly large its urban center develop over the right Master plan to 2000 over the northern bank (hữu ngạn) of 1998 Hanoi's back to the strategy of side of Red river Red river developing over the right bank 1954 1981 152 km2 1981 0.44 million habs Master plan of 1998 is 1960 revised for a vision of 1954 2010 1991 1961 922 km2 Master plan of 1960-586 km2 1964 2.05 million Hanoi tent to reach the 0,9 million habs other side of Red river, habs but very modestly

MAJOR TRANSFORMATION OF 21E CENTURY

The refom of 2008 Figure 11 – ANCIENNES ET NOUVELLES LIMITES DE HÀ NỘI Phúc Tho 21°20' N Vinh Phúc Giang Vĩnh Phúc Bắc Ninh 2008 Hà Nôi 3.345 km2 Hoà Bình Hưng Limite du nouveau Hà Nội Limite de province Limite de district Hà Nam Nom de province Ancienne province de Hà Nội

Hà Nam

105°50'E

10 km

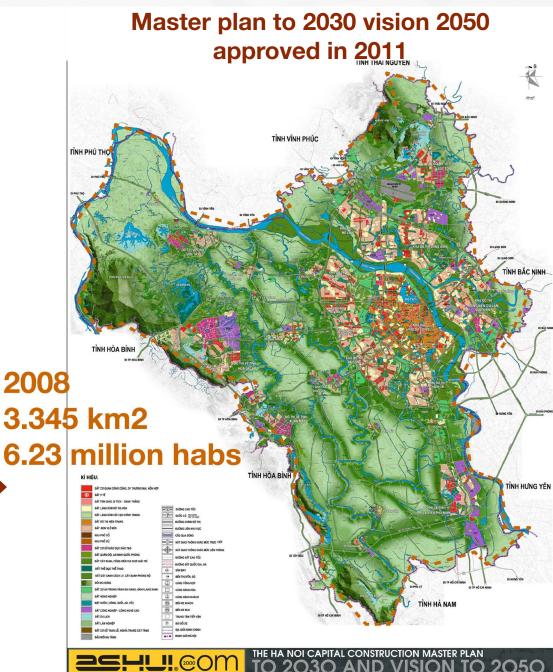
Ancienne province de Hà Tây

Arrondissement de Më Linh (province de Vinh Phúc) Communes de Tiến Xuân, Yên Bình, Yên Trung et Đông Xuân

(ancien arrondissement de Luong Son province de Hoà Binh)

105°30'E

Source : dessin C. Music à partir information ministère de la Construction



HOW DO WE BUILD THE FUTURE METROPOLIS?



Urban (30%)



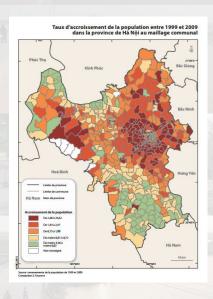




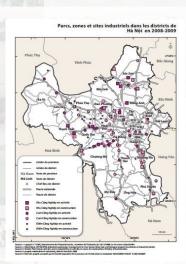
Green corridor (70%)



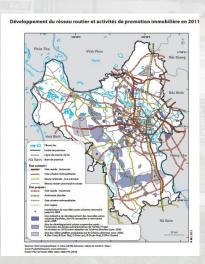
RÉSEAU ROUTIER - LE LEVIER DE L'URBANISATION



Rate of Population growth of Hanoi between 1999 and 2009

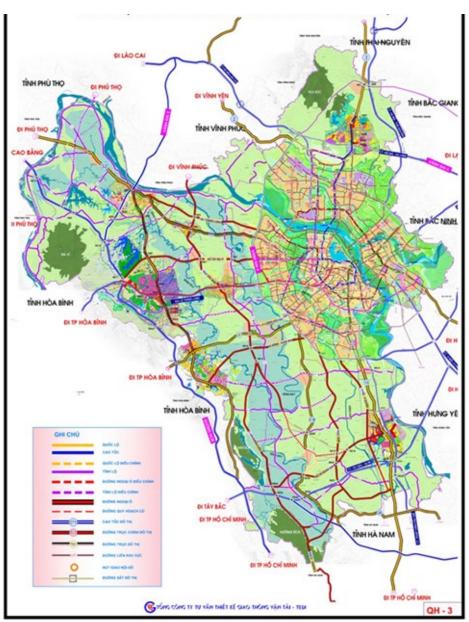


Industrial parks, zones and sitesin Hanoi in 2008-2009



Road system and land use evolutions in 2011

HANOI TRANSPORT PLAN TO 2030



IMPORTANT INVESTMENT

ROAD NETWORK PERSPECTIVE

Construction

- Beltway No 4 (148 km) et No 5 (375 km)
- Urban road which connect satellite towns with the city center (90 km)

Upgrade

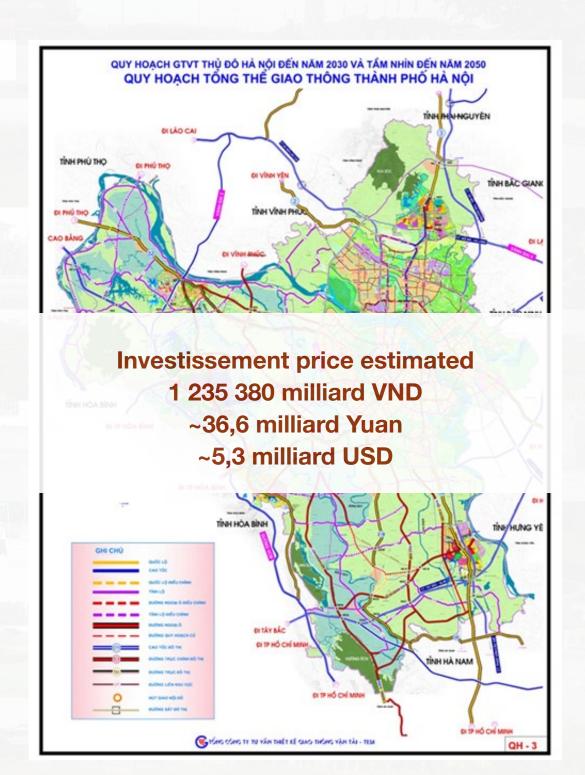
- Current urban road network (336 km)

Bridges

- 8 bridges on Đuống river, 4 news, 4 upgrade from existing ones
- 5 new road-rail bridges on Red river

PUBLIC TRANSPORT PERSPECTIVE DU

- In 2030, 50-55% of urban mobility will be charged by public transport, bus 30%, Métro 20-25%.
- Put in service un complete network of Bus, High Quality Bus (BRT), Métro



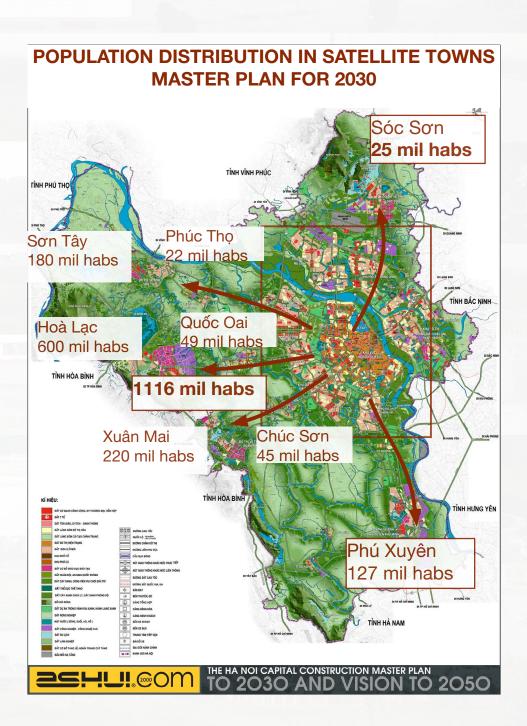




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MÉTROPOLISATION IN WESTERN AREAS

POPULATION DISTRIBUTION IN **EXTENDED AREAS OF URBAN CENTER** Dong Anh Urban extension area at the Nord of Red river 1700 mil habs Long Bien toai Đượ Urban extension area at the Sud of Red river 1250 mil habs

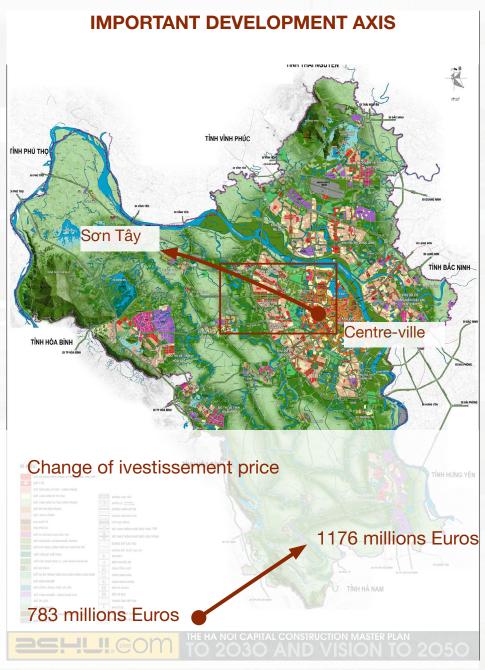


PROJECT MANAGEMENT?



Changes of «Starting - Ending» date





PROJECT MANAGEMENT?

UPGRADE PROJECT OF NATIONAL ROAD 32 (CẦU DIỄN - NHỔN)

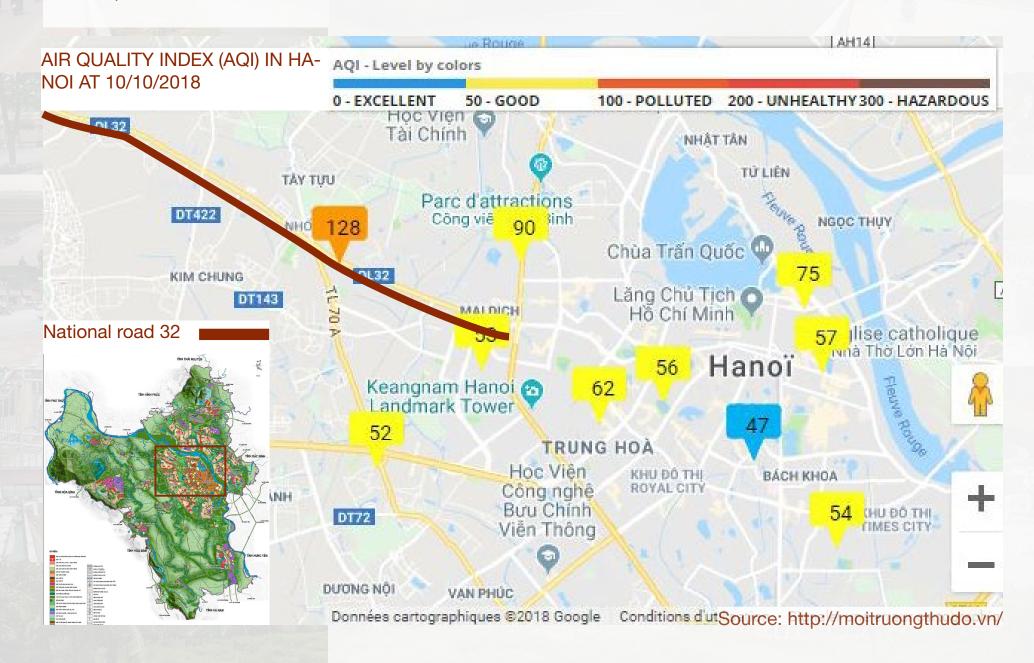


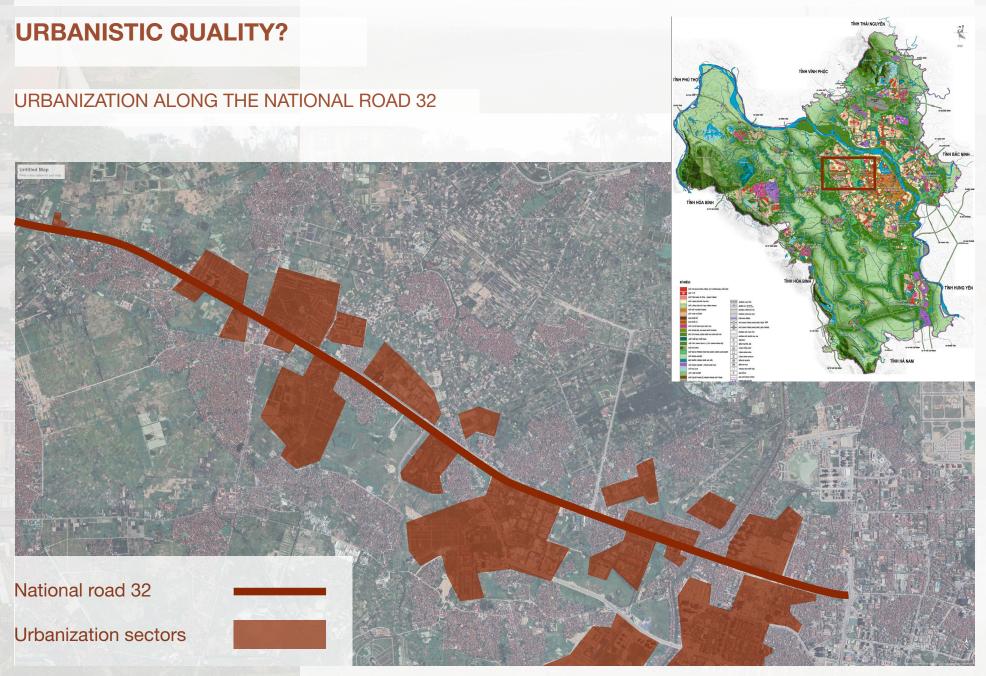


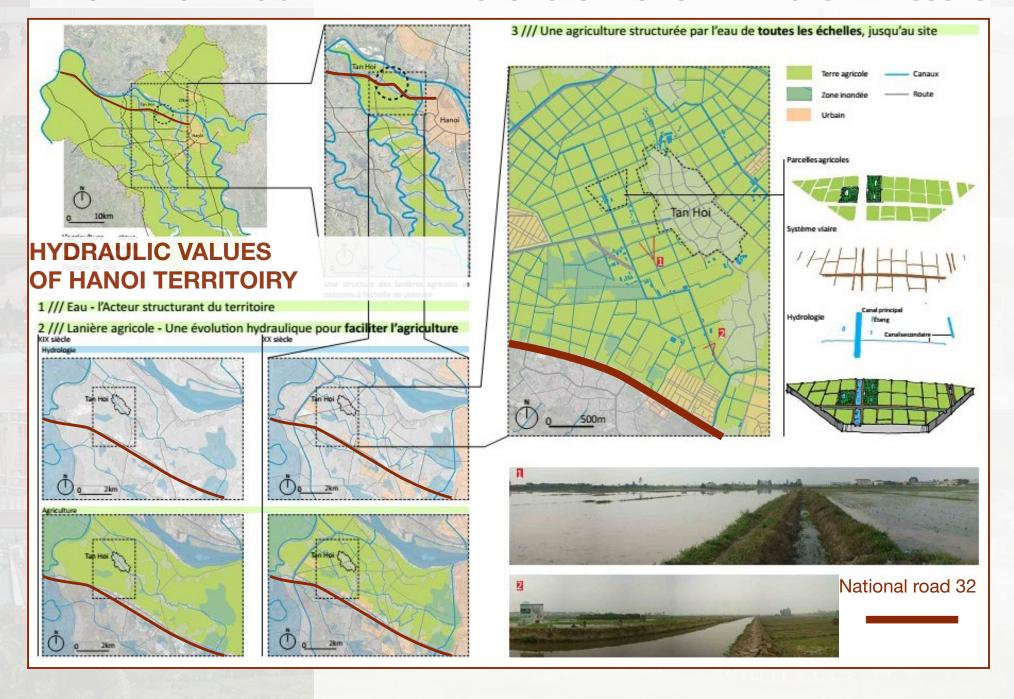




LIFE QUALITY











/// Coherence between road network development and urbanization.

/// Environmental degradation tied to urbanization.

/// La prise en compte des mécanismes naturels pour un développement urbain raisonnable et efficace

