

2006/HRDWG/SYM/021

Agenda Item: 20

Networking of Spatial Approach

Purpose: Information Submitted by: Indonesia

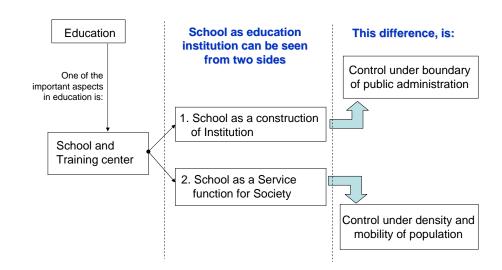


APEC Symposium on Open Source and Open Course for E-Learning Ha Noi, Viet Nam 4 - 6 December 2006

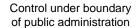
NETWORKING OF SPATIAL APPROACH

(for education planning)

Background:



Difference:



The Scope of Policy: school management

School management is based on the number of students

- -How many schools must have?
- -How many teachers?
- -How many books?
- -How many classes?,
- -etc

District A	District B
District C	District D

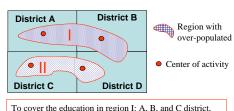
Every district has a plan to manage education for constructed of institution

Control under density and mobility of population

The Scope of Policy: society management

Society management is based on the number of residents in the region. While the nature of the population is mobility and reside in the neighborhood of activity center.

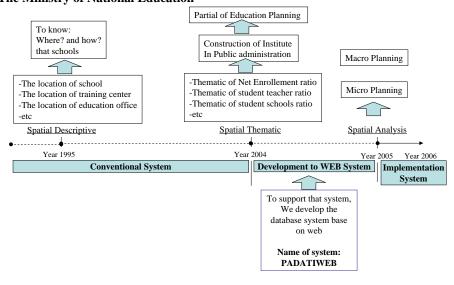
In terms of the efficiency of a region, The next question are where the school should be located and how many school are needed.



the district must have an integrated plan.

This also apply for C and D district must have an integrated plan to cover the education in region II.

The Development of the Educational Mapping in The Ministry of National Education



PADATIWEB: the education data system based on WEB able to operate in internet or intranet

Example Macro Planning:

Map of the mobilization of school age population in Yogyakarta Province



Gravitation Models

Function of:

- •Number of population
- •Distance between two places



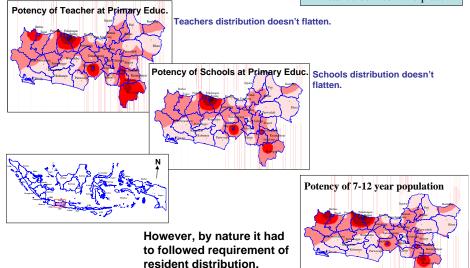
The rate of school age population in Yogyakarta city is high, this condition is influenced by the number school age population from Sleman district and Bantul district (index 20 and 22).

Map of the mobilization Teachers, Schools, and school age population in Central Java Province

Regional Potency

Function of:

- •Number of population
- •Distance between two place



To implement the System, we used E-Learning Method.

${\it Reasons~using~e-learning~are:}$

- 1. Geographical condition » Geography of Indonesia: 33 Province, 441 District
- 2. Globalization
- 3. Acceleration the frequency of coordination / face to face activities
- a. Coordination for the education data and the map
- b. Coordination for sharing of Spatial Method

The faced problems:

- 1. High variance for Infrastructure of IT, between districts
- 2. High variance for human resource, between districts
- 3. Commitment of local government (district level) for coordination



Introduction:

The related Issue to education of national and globalization push us to identify and look for the symmetrical points so that can bring into contact the two matter seems differ (without intersection), that the educational of Indonesia have an implication to national and global.

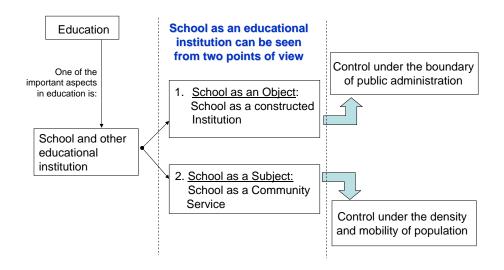
The impact of globalization force many states to revise their understanding and knowledge to nation concept, not even because the boundaries factor of territorial geographical, but also defense of culture and another aspect which sustain their existence as nation state don't have the absolute immunity from globalization current.

For that, we needed the coordination and the same understanding to concerning development and management of education between district, province and national.

One of the key of coordination is commitment and intensity from coordination

And E-learning is one of the methods to support coordination.

Background:



Comparison:

Control under the boundary of public administration

The Scope of Policy: school management

School management refers to the number of students

are needed?

- -How many schools -How many teachers
- -How many books
- -How many classes

District A District B

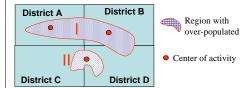
District C District D

Every district has a plan to manage education for constructed institution Control under the density and mobility of population

The Scope of Policy: society management

Society management refers to the number of residents in the region. While the nature of the population is mobility and reside within the activity center.

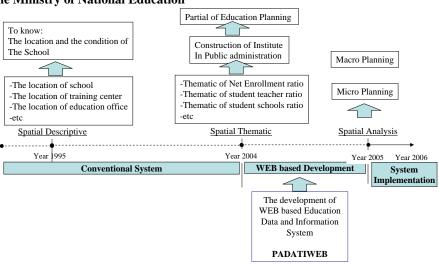
In terms of the efficiency of a region, The next questions are where the school should be located and how many school are needed?.



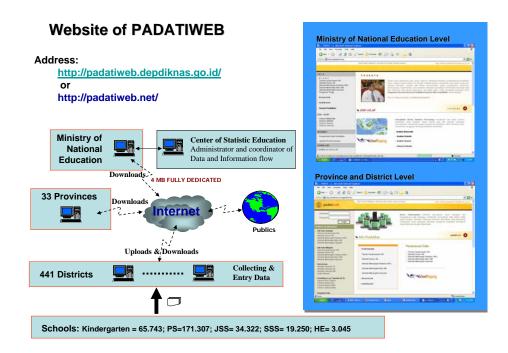
To cover the education in region I: A, B, and C districts. the district must have an integrated plan. This also apply for C and D districts each must have an

integrated plan to cover the education in region II.

The Development of the Educational Mapping in The Ministry of National Education



PADATIWEB: the education data system based on WEB able to operate in internet or intranet



Example of Macro Planning:

The mobilization Mapping of school age population in Yogyakarta Province



Gravitation Models

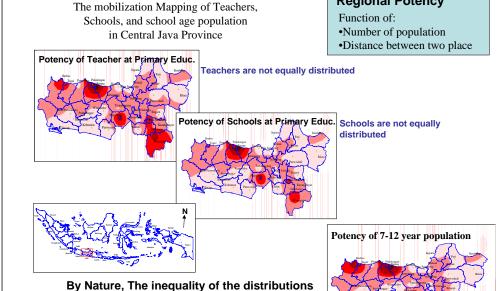
Function of:

- •Number of population
- •Distance between two places

No	Districs	NER
1	Kab. Bantul	90.94
2	Kab. Sleman	91.42
3	Kab. Gunung Kidul	89.40
4	Kab. Kulon Progo	93.31
5	Kota Yogyakarta	144.70
	- A	i



The rate of school age population in Yogyakarta city is high, this condition is influenced by the mobilization of a number of school age population from Sleman district and Bantul district (index 20 and 22).



is caused by the inequality of the population

distribution.

Regional Potency

Website of Networking of Spatial Approach (NSA)

Address:

http://eduolap.padatiweb.depdiknas.go.id/

http://eduolap.padatiweb.net/

Includes:

1. Introduction to NSA



Website of Networking of Spatial Approach (NSA)

Address:

http://eduolap.padatiweb.depdiknas.go.id/

http://eduolap.padatiweb.net/

Includes:

2. Forum for discussion



Website of Networking of Spatial Approach (NSA)

Address:

http://eduolap.padatiweb.depdiknas.go.id/

http://eduolap.padatiweb.net/

Includes:

- 3. Study of Spatial Analysis a. Regional Analysis

 - b. National Analysis



Website of Networking of Spatial Approach (NSA)

Address:

http://eduolap.padatiweb.depdiknas.go.id/

http://eduolap.padatiweb.net/

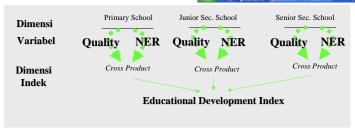
Includes:

4. EDU-OLAP

Educational Online Analysis Processing

- a. Mathematical Analysis
- b. Statistical Analysis
- c. Spatial Analysis





Website of Networking of Spatial Approach (NSA)

Address:

http://eduolap.padatiweb.depdiknas.go.id/

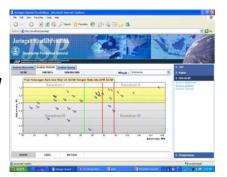
http://eduolap.padatiweb.net/

Includes:

4. EDU-OLAP

Educational Online Analysis Processing

- a. Mathematical Analysis
- b. Statistical Analysis
- c. Spatial Analysis



Website of Networking of Spatial Approach (NSA)

Address:

http://eduolap.padatiweb.depdiknas.go.id/

http://eduolap.padatiweb.net/

Includes:

4. EDU-OLAP

Educational Online Analysis Processing

- a. Mathematical Analysis
- b. Statistical Analysis
- c. Spatial Analysis



To implement the System, we used E-Learning Method.

Reasons using e-learning are:

- Geographical condition » Indonesia comprises of: 33 Province, 441 Districts would in urban and rural area.
- Globalization
- 3. Acceleration of the frequency of coordination / face to face activities
 - a. Coordination in educational data and mapping
 - b. Coordination in sharing the Spatial Method

- High variance in the provision Infrastructure of IT, among districts
- High variance for human resource, among districts
- 3. Commitment of local government (district level) in coordination

