Project e-Shishu

The golden words of
Sarva Shiksha
Abhiyan
is to get all the
out of school children
of our country
into the school
by
2010

Project e-shishu

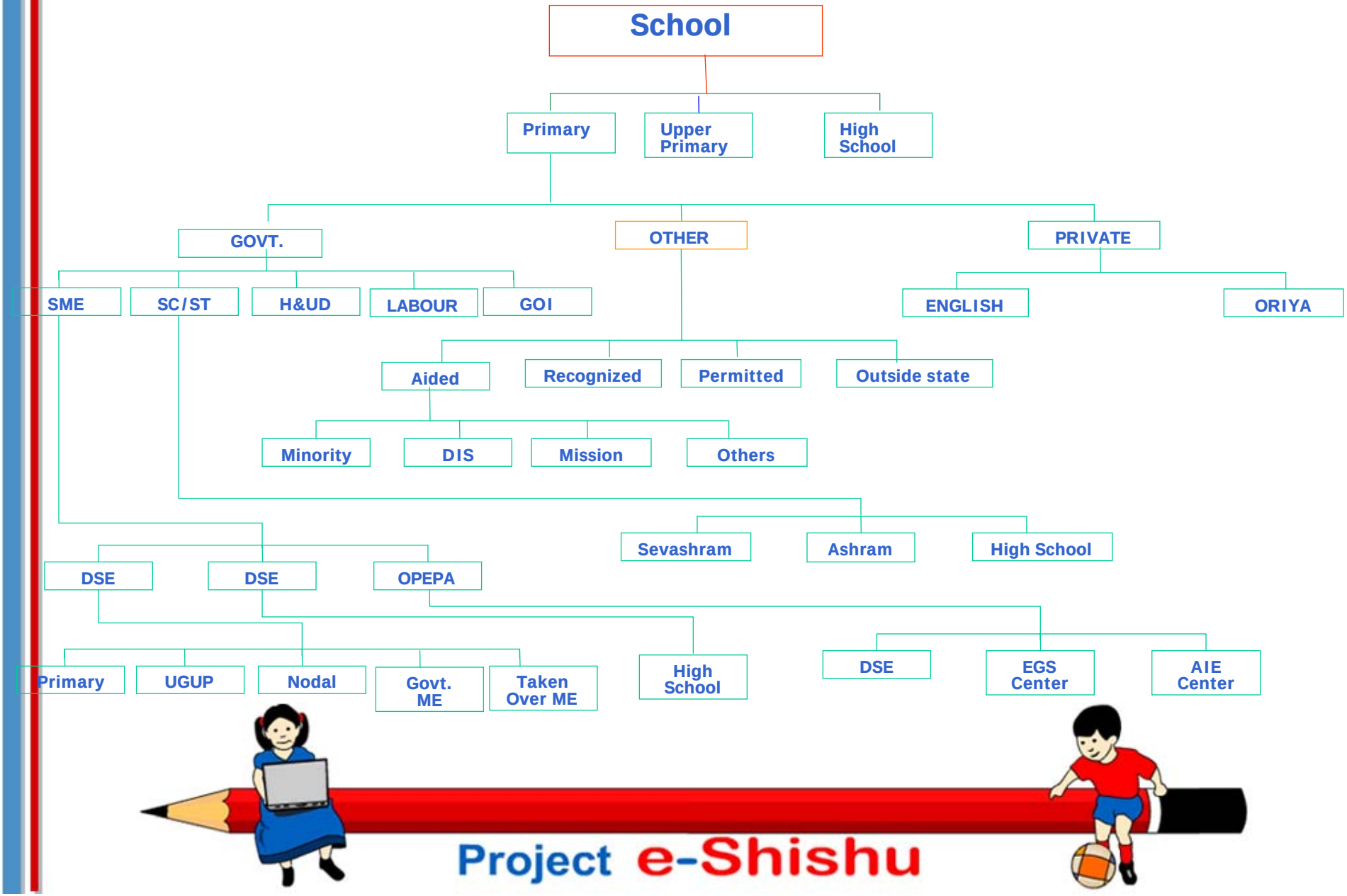
Prelude...

Education is a multipurpose process, which not only inculcates social, economic and cultural awareness in humanity, but is also an important medium for grasping and promoting life enhancing values among human beings .It awakens the potential among people so that they are able to recognize truth, beauty and goodness. Value Education propels mind and soul towards achieving equilibrium which enhances the personality and promotes mental and spiritual strength as well as clarity and resolution in one's aims. Actually, education is an ever continuing and open ended process and its true objective is to civilize humankind.

Right to free and compulsory elementary education is now a fundamental right for every child in the age group of 6-14 years. Govt. of India in collaboration with State Govts have embarked upon an ambitious programme of Sarva Shiksha Abhiyan.

Are we achieving the goal...? Let's Explore....

Schools in Orissa



Teachers in Orissa

There are roughly 1lakh and 4 thousand government teachers in the state under S&ME department.

And say another 40 thousand Para teachers and Swetcha Sevi Shiksha Sahayak (SSS) supporting the education program for elementary education in the state.

paradoxically

These teachers are monitored by the Government through the above shown hierarchical structure of the schools.

There is a huge **gap** between the Government's intention and the motivation of the teachers to achieve the target of SSA

Children in Orissa

It is estimated that the Orissa child population is around 1 crore (0-14 years).

Statistically

A. Every year OPEPA draws physical and financial milestones in the year beginning to bring in all out of school children to the school.

B. With the statistical data of the child population; budget is prepared to make provisions of new schools, Bridge Courses, EGS Centers, pedagogy improvement, girls education, special attention to disabled and many more activities.

But…all the planning depends on the Authentic Child population in the state which could be accessed and updated in real time at the Districts, blocks, Gram-panchayat and village level.

Unless we have information of each child with name, Guardian name, district, block/ULB,GP/Ward & Village where he/she resides with additional information on physical status, educational status, community etc…the dream of making the Sarva Shiksha Abhiyan a success is impossible…..

Project e-Shishu ... the roadmap

1. Snapshot
- e-Governance for education system
- Importance to Government
- Citizen centricity

2. Background
- SSA
- Objectives
- Areas of concern

3. Changing Strategy
- New requirements
- Emergence of e-Shishu

4. Importance
- Objectives

5. Planning
- Stakeholders
- Data Collection
- Infrastructural
- VSAT Connectivity

6. References & Survey
- Key elements
- Study Surveys

7. Pre-process activities
- Supplying Services
- Change Requirements
- Capability Requirements

8. Process
- Pre-survey activities
- Training schedules
- Report study

9. Implementation

10. Best Practices

11. Benefits

12. Way Forward

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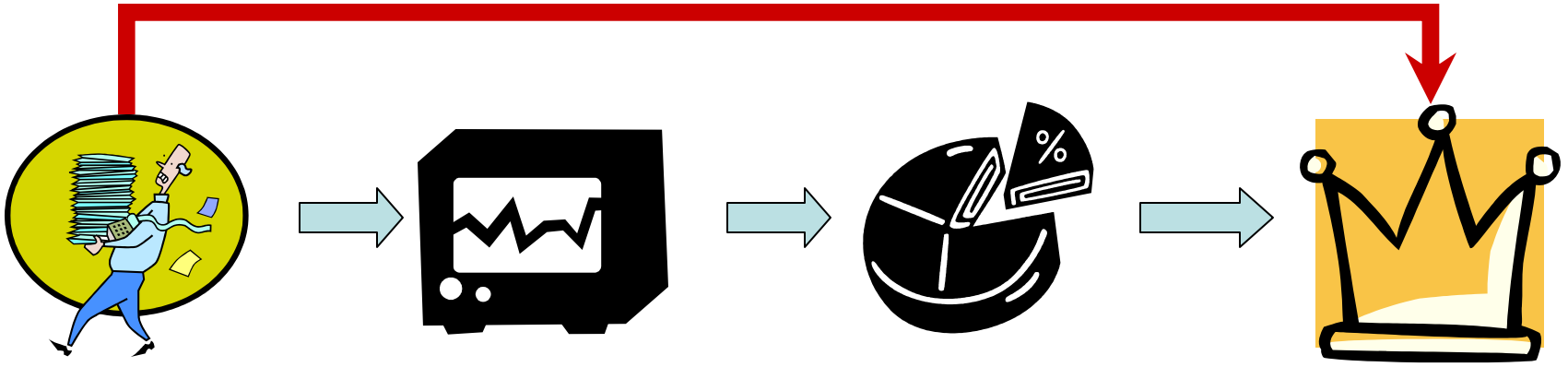
Snap Shot...

e-Governance for Education system

e-Governance initiatives, traces, points and fills out the lacunae of the previous processes of elementary education by way of:

- Universal enrolment
- Universal retention &
- Universal achievement

Importance to Government



Unorganized data

E-Governance initiatives

Processed information

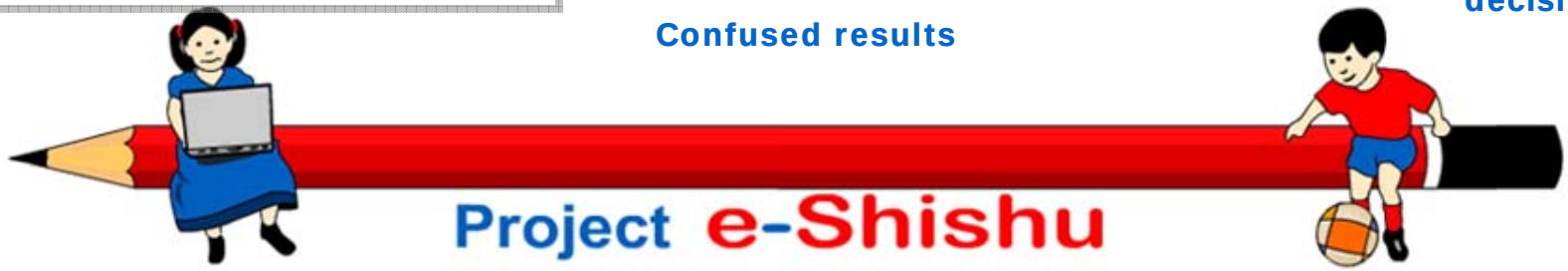
Government's decision making processes

Without E-Governance initiatives

With E-Governance initiatives

Confused results

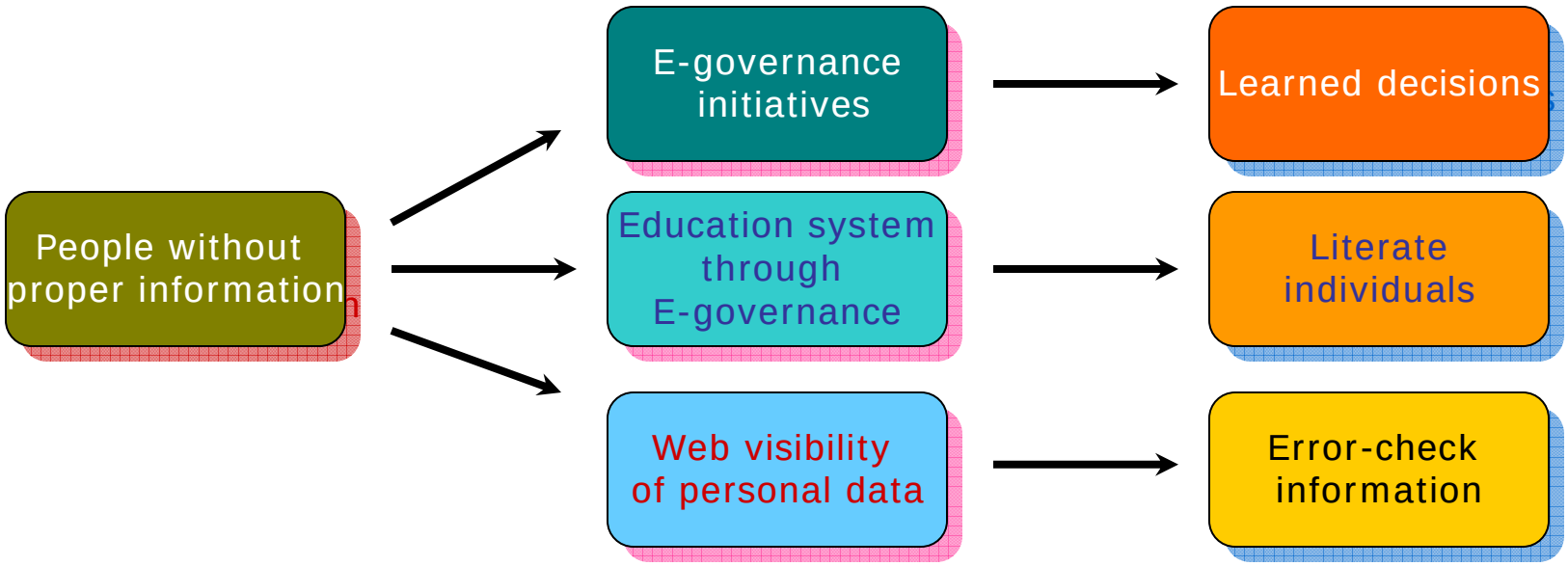
Proper decisions

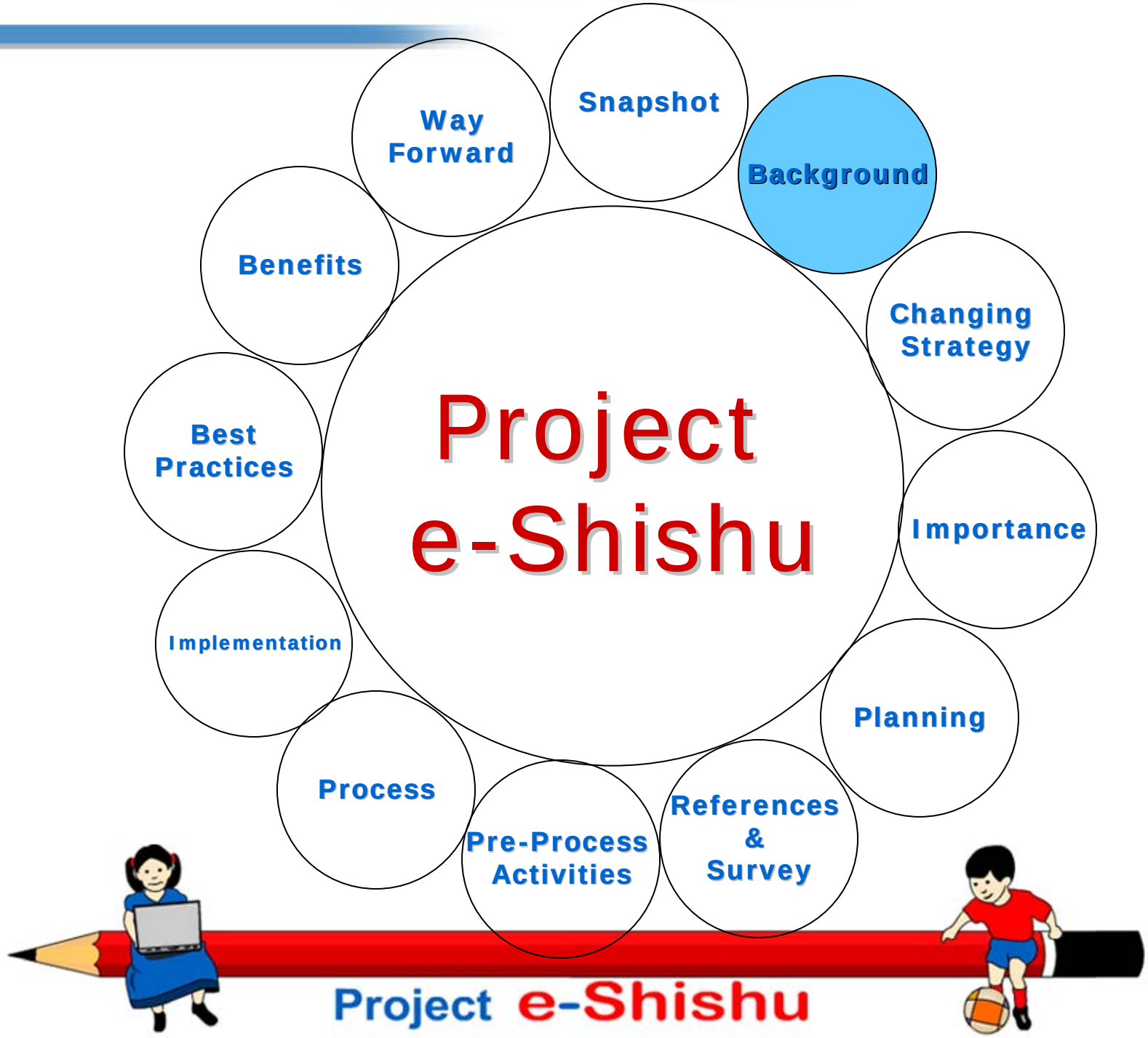


Project e-Shishu

Citizen Centricity

e-Governance initiatives bridges the digital divide between the citizens and their own information by bringing transparency of records

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Background...

- SSA
  - The Sarva Shiksha Abhiyan has been a historic stride towards achieving the long cherished goal of Universalization of Elementary Education (UEE) through a time bound integrated approach. SSA promises to change the face of the elementary education sector of the country, aims to provide useful and quality elementary education of 8 years to all children in the 6 -14 age group by 2010.
- Objectives
  - All children in school, Education Guarantee Scheme Centres, Alternate & Innovative Education Centres, ' to School' camp by 2005;
  - All children complete five years of primary schooling by 2007;
  - All children complete eight years of schooling by 2010;
  - Focus on elementary education of satisfactory quality with emphasis on education for life;
  - Bridge all gender and social category gaps at primary stage by 2007 and at elementary education level by 2010;
  - Universal retention by 2010.

- **Areas of Concern**
  - Large unevenness of achievements.
  - Huge gaps remain between rural and urban areas, and the probability of getting any education at all sharply depends on gender, caste and income.
  - Women, Scheduled Castes and Tribes and the poor are faced with formidable barriers when it comes to getting basic education.
  - Apart from socio-economic determinants, the educational infrastructure and the management and the governance of the educational system falls short of being the largest provider of education in India.
  - Though the number of primary schools in the country has increased substantially, more than one lakh habitations still do not have access to a primary school within a distance of one kilometer.
  - Teacher-pupil ratios are inadequate: Less than 2 teachers are available in the rural areas to teach a class size of around 100 students.
  - Fewer girls attend school in the rural areas compared to their urban counterparts, and also compared to boys in the rural areas.

Where is the Problem?

- Till date OPEPA does not have a comprehensive village wise list of the children names who are out of school.
- There is the problem of duplication of enrolment in Govt. institutions due to several incentives like Books, MDM, Uniforms etc..
- Information on infrastructure of schools, teachers posting etc is hard to get from remote locations.
- Also there is no system to get information on Future entrants to the education system.
- Though the information on out of school is generated from the data collected but this is only in numbers. And there is no solid information on the details of the children who are out of school.

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Changing Strategy

- New Requirements
  - To have a comprehensive data base of children from 0-14 years..
  - To track the birth of every child so as to have a projection.
  - To estimate the volume of children- enrolled/ never enrolled/ dropout with different caste/gender/age.
  - Demographic and geographic profile of every child, whether studying or out of school and reasons for the later.
  - To attain 100 percent accuracy of data collected, where human intervention can be minimized, reducing chances of error.
  - To get information on the infrastructure of Schools and institutions so that proper action can be taken.
  - To get information on the teachers in the entire state.
  - To provide better infrastructure in the state as well as District offices for faster retrieval of data and updation.

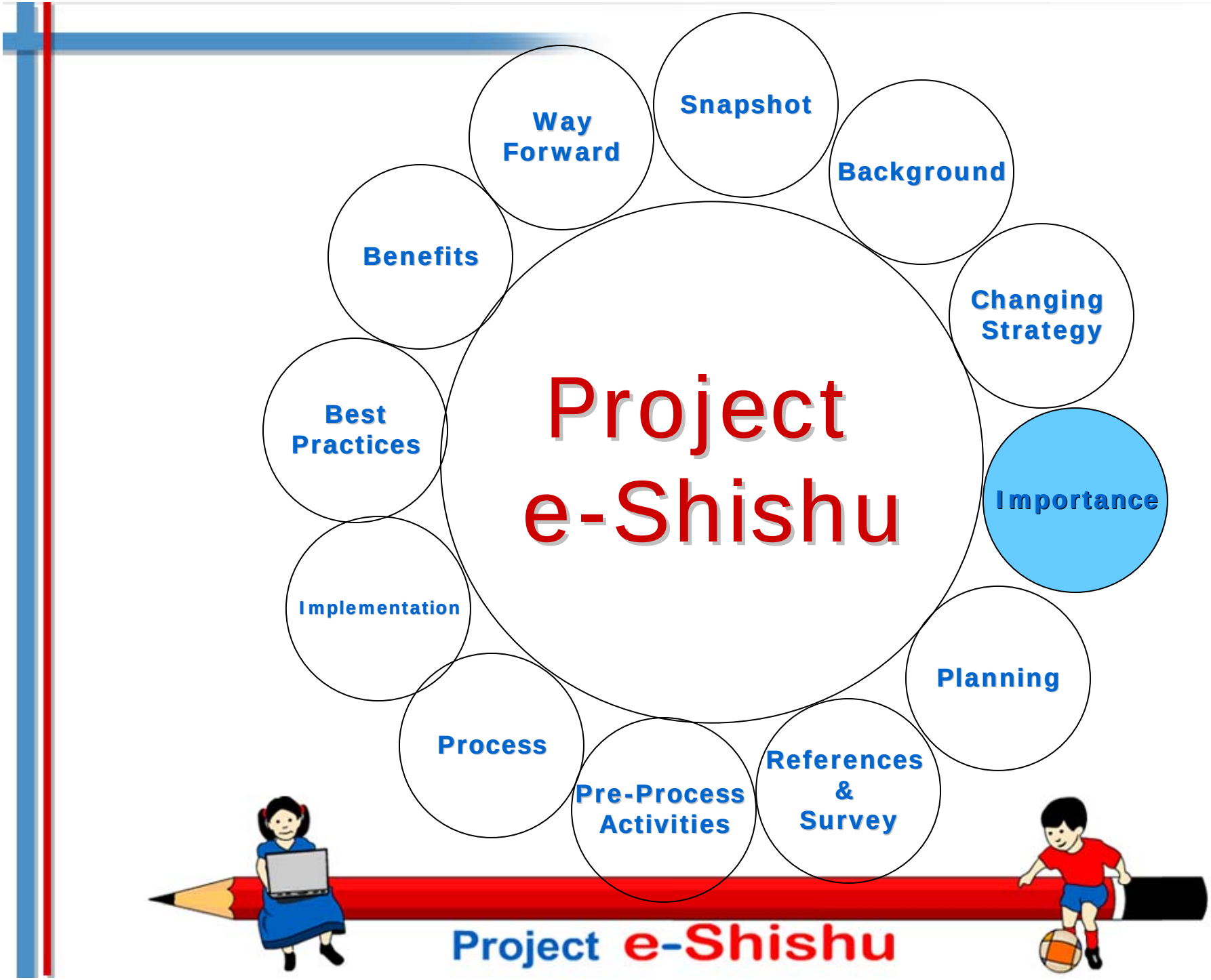
- # Emergence of Project e-Shishu

  - To have a comprehensive data base of children from 0-14 years, OPEPA required to conduct a child census- 2005, from 1st-10th October 2005. The “ORISSA CHILD CENSUS 2005” would cover each & every household of the state. A database of all the children of 0-14years, with their name, age, sex, caste, educational status and the reasons for out of school has to be built up, using the ICR (Intelligent Character Recognition) technology.

    For school and Teachers, two sub-projects are also included in the project:

    - **Orissa GIS School Mapping Project-2006** .
    - **Orissa Education Personnel Information Project -2006** .

  - With the data collected and stored into the database, **a Child Tracking System (CTS)** was required to be developed for generating different kind of statistical report as well as to track down child by her/his name or guardian name. The district programmers could update the child, School as well as the House hold data at the district office and the data could be consolidated in a centralized server at the state office. This information would be made available in the website for the public viewing where the latter can not only track particular child information but also can suggest changes on the particular information.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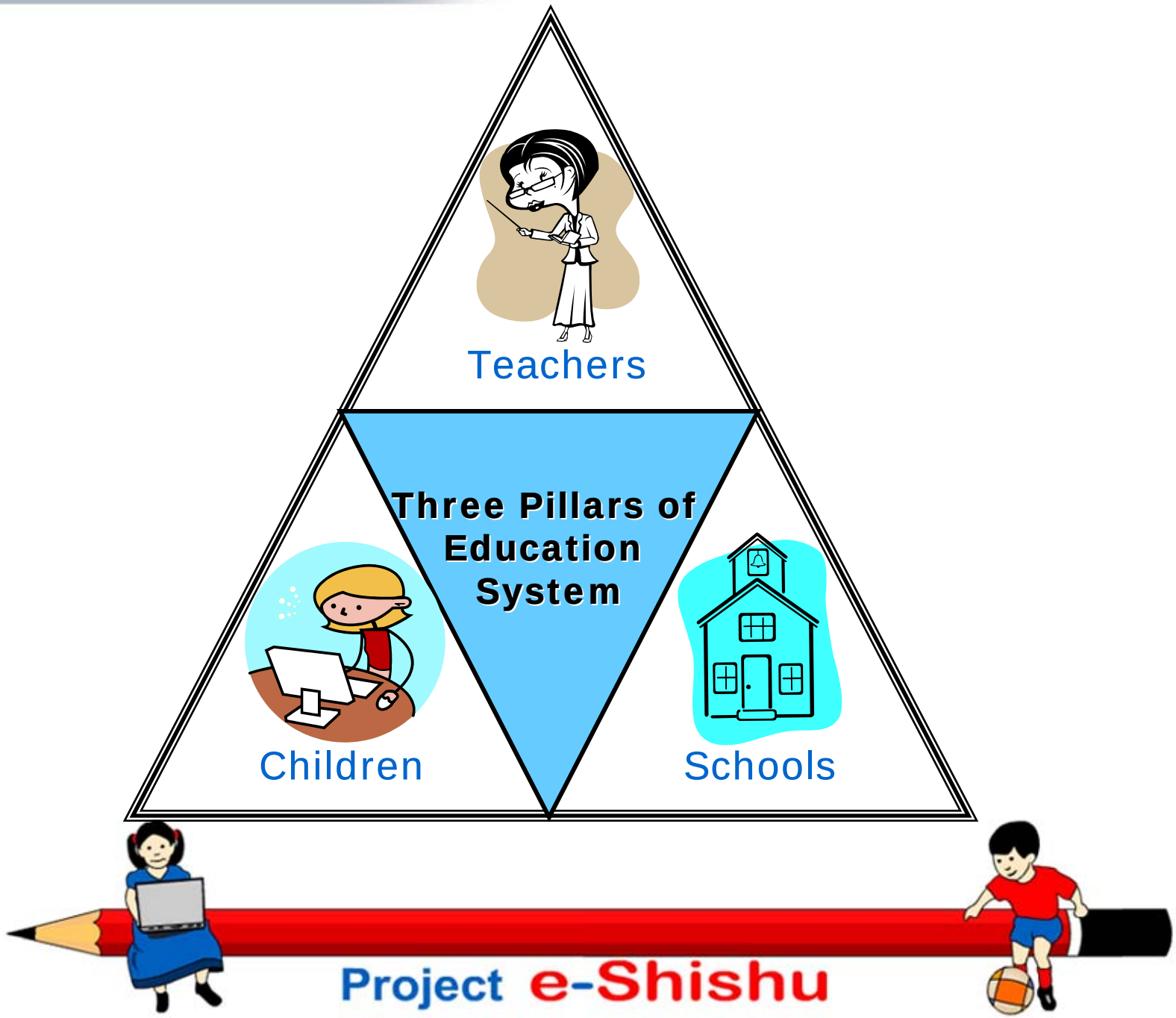
Importance of the Project...

- Objective
  - To have a comprehensive and authentic database of children from 0-14 yrs with name, guardian name, date of birth, sex, religion, category, school where studying, if out of school then reasons for it, mother tongue, with special needs etc. of the entire state of ORISSA.
  - To map all the schools using GPS survey for getting information on the infrastructure.
  - To get information about teacher details, their posting etc.
  - Linking of Infrastructure and teachers position to each and every school apart from students.

In nutshell:- To strengthen the **three PILLARS** of the education system.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Three Pillars of Education System
Children
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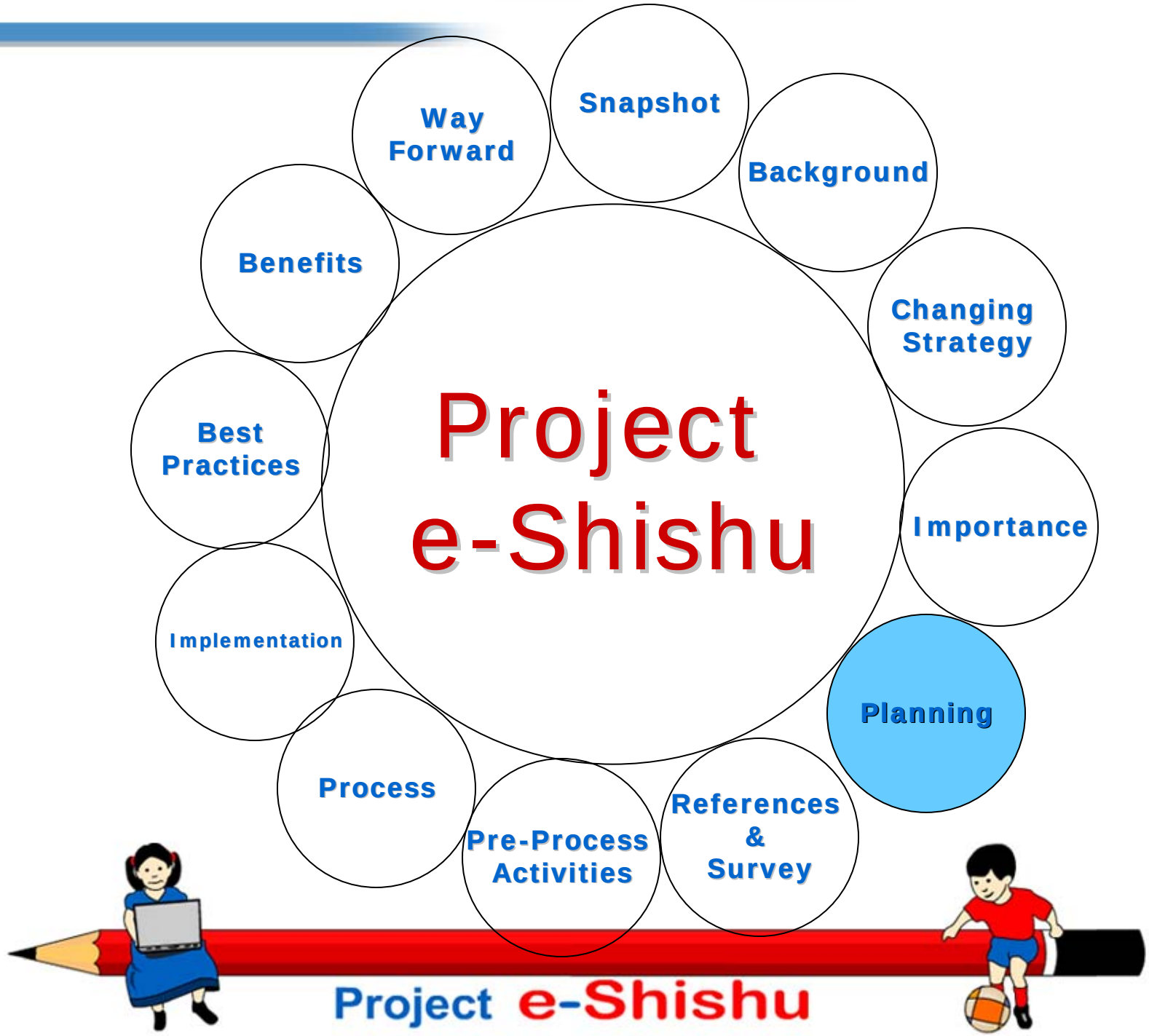
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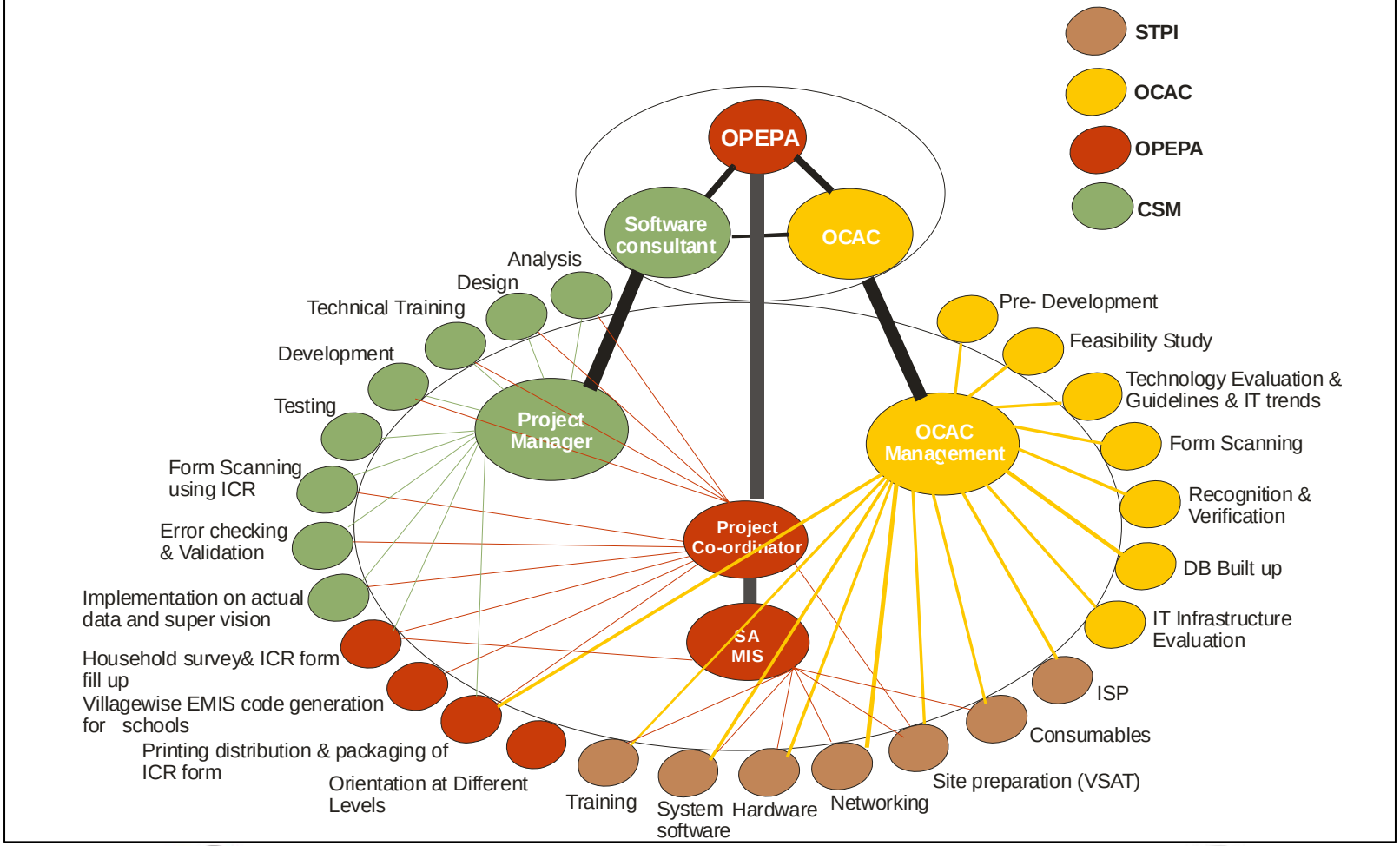
Administrative Structure for Implementation of e-Shishu



Planning...

- **Involvement of Stakeholders**
  - Project conceiving with Honorable Minister for School & Mass Education during Assembly Session, 1st week of August'2005.
  - Appeal writting by Honorable Minister wrote an to all public representatives starting from word members up to Honorable Members of parliament (nearly 1 Lakh letters) to
    - generate awareness
    - requesting for participation
    - whole hearted support to the campaign.
  - Designing draft format and circulation to
    - All collectors
    - District Project Coordinators of SSA
    - District Inspectors of Schools
  - Teleconference held on 2nd September with 1050 stakeholders from various institutions; the objective being:
    - the process of implementations
    - Discussion of each item of the format.
  - Developing training module to:
    - impart training to each and every stakeholder of the project
    - Detail instructions were given with respect to each and every activity of the entire process.

- Data collection
  - Prioritizing on the form fields
  - Codification for maximum number of fields to avoid errors.
  - Planning on Printing, distribution, collection and data capture.
  - Deciding on technology to be used to extract data from the form in less time with least error.
  - Scheduling preparation for data collection and validation.
  - Team forming for monitoring the data collection and validation.
- Infrastructure Built-up at Offices
  - Identifying proper IT infrastructure in all the district head quarters for data updating.
  - Decision-making on suitable servers, connectivity and Management for the same.
  - Skill set required for managing the IT infrastructure at district level.

- VSAT Connectivity
  - Identifying the Connectivity of District offices with the main server at state office which was a major requirement.
  - Discussing and deciding the Infrastructure requirement for the connectivity on setting up of VSAT in each district and the State office.
  - Preparing the Field Survey schedule for VSAT implementation.
  - Finalizing the Team formation for Field survey and VSAT implementation.
  - Finalizing the Schedule for implementation of VSAT in the districts.

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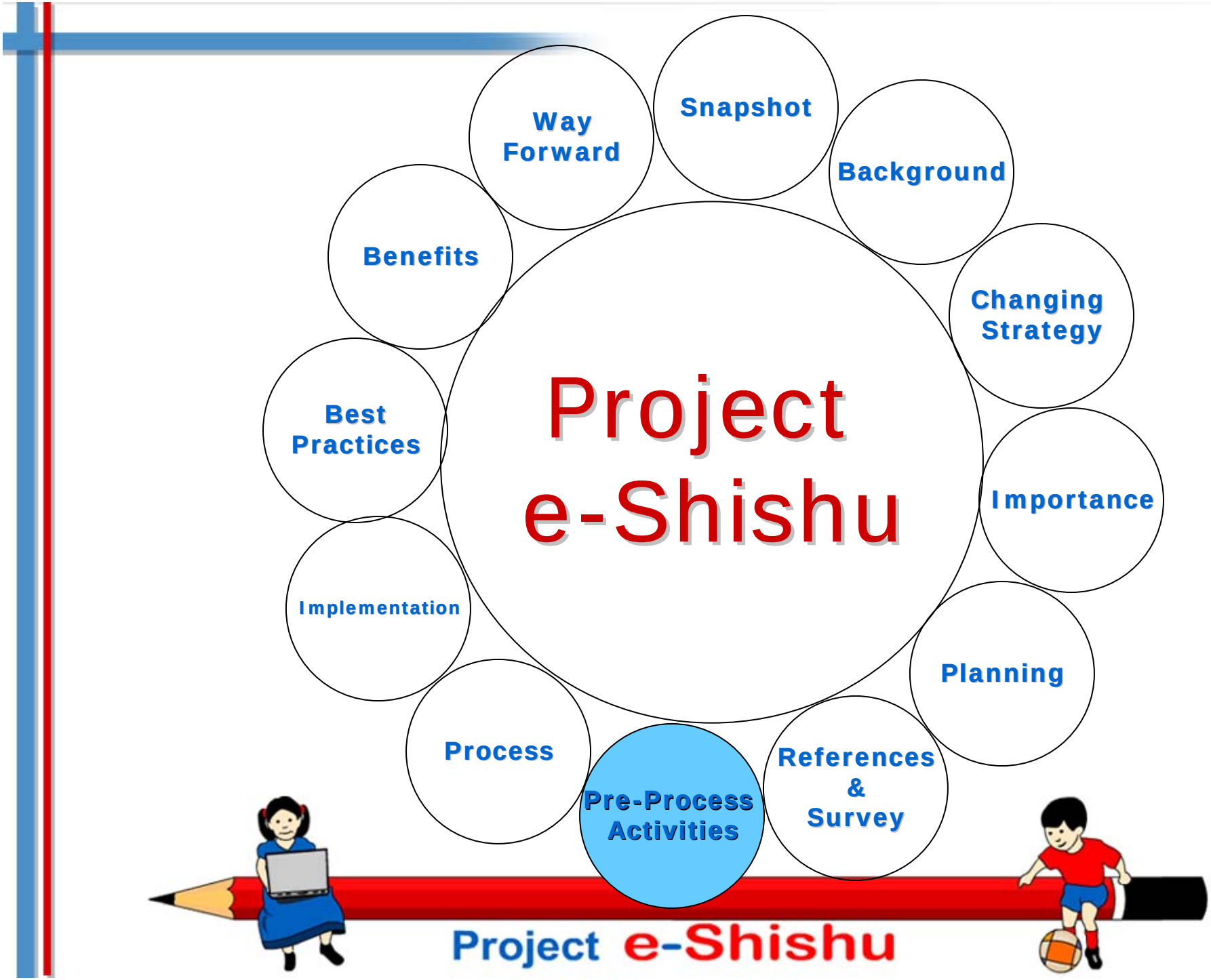
References & Surveys...

- Key elements
  - The District planning Coordinator collected the polling booth wise voter list in advance, which was distributed to the Block Resource Group (BRG) Members.
  - The GP/Ward wise mapping of all schools/EGS centers and the School Code, covered under DISE. The concerned SI of School then identified all the left out - formal/ non-formal & recognized/ un-recognized institutions/schools with respect to the DISE School Code list.
  - Development of EMIS code

- Study Surveys
  - The Block Resource Group was responsible for the survey for finding the distribution of pooling booth wise voter list, finalization of EMIS Code for all the formal/ non-formal & recognized/ un-recognized institutions/schools and training to the Enumerators.
  - District Resource Group was responsible for the finalization of the block wise survey schedule, distribution of pooling booth wise voter list, finalization of EMIS Code for all the formal/ non-formal & recognized/ un-recognized institutions/schools and training to the BRG Members
  - Survey was done in all the 30 districts by experts to get a clear picture on the availability of proper environment to set up VSAT. After a 7 days survey of all the 30 districts, the plan was made for installing Servers, VSAT. For VSAT installation lighting arrester and power earthing was also surveyed. Further the voltage fluctuation and the network status of district office computers were also surveyed.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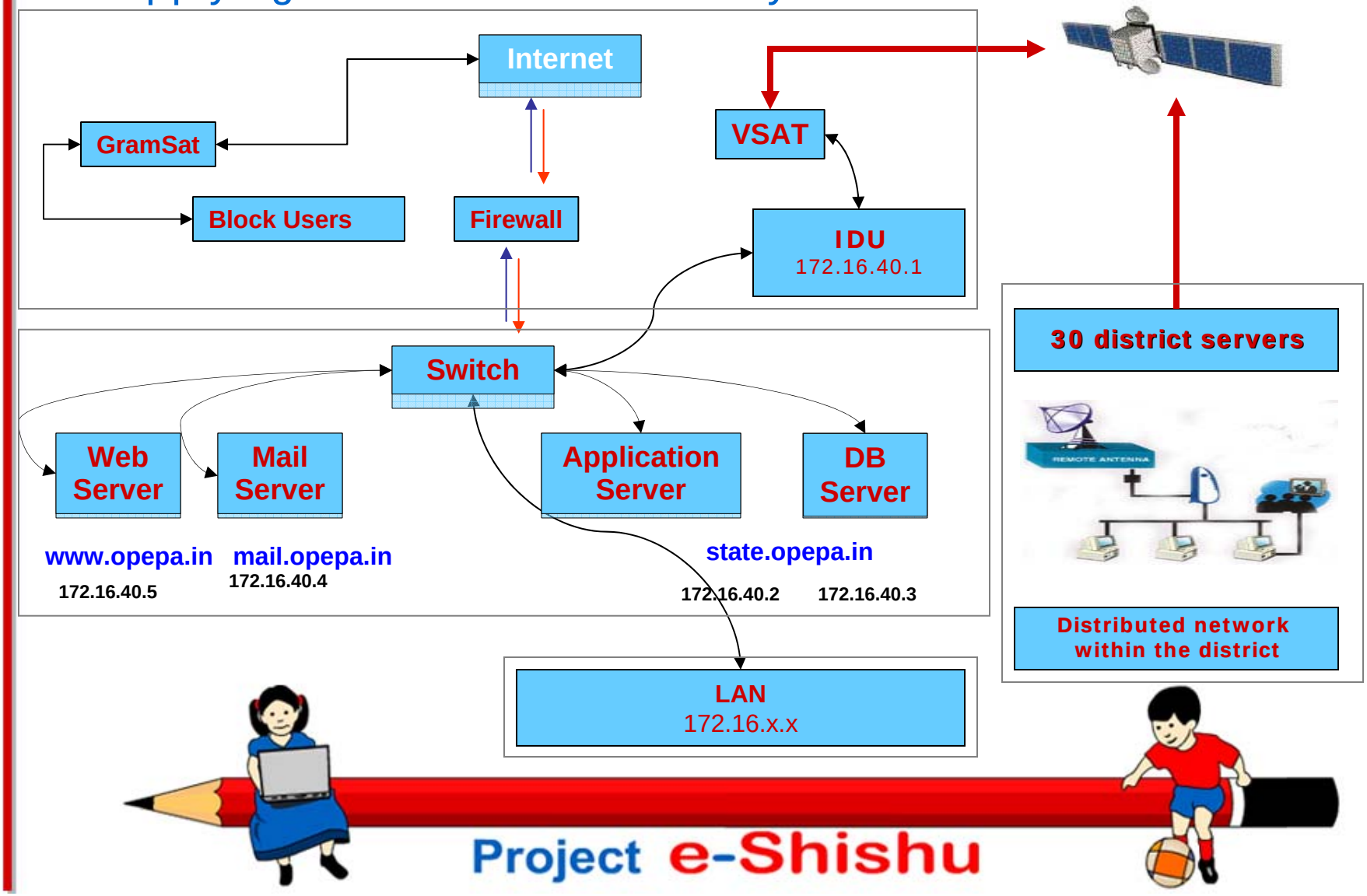
Pre-process activities...

- Supplying Services - Connectivity



- Supplying services – Front/Back office Operations
  - Every district office across the state required to be equipped with high-end servers and proper infrastructure to manage the child data for that particular district.
  - As the volume of the data is very huge, it was decided to have a centralized implementation but decentralized architecture. That means each district office will update the data at the district server and those data would be consolidated in a regular interval of time.
  - Also planning on the software development for the data management was done.

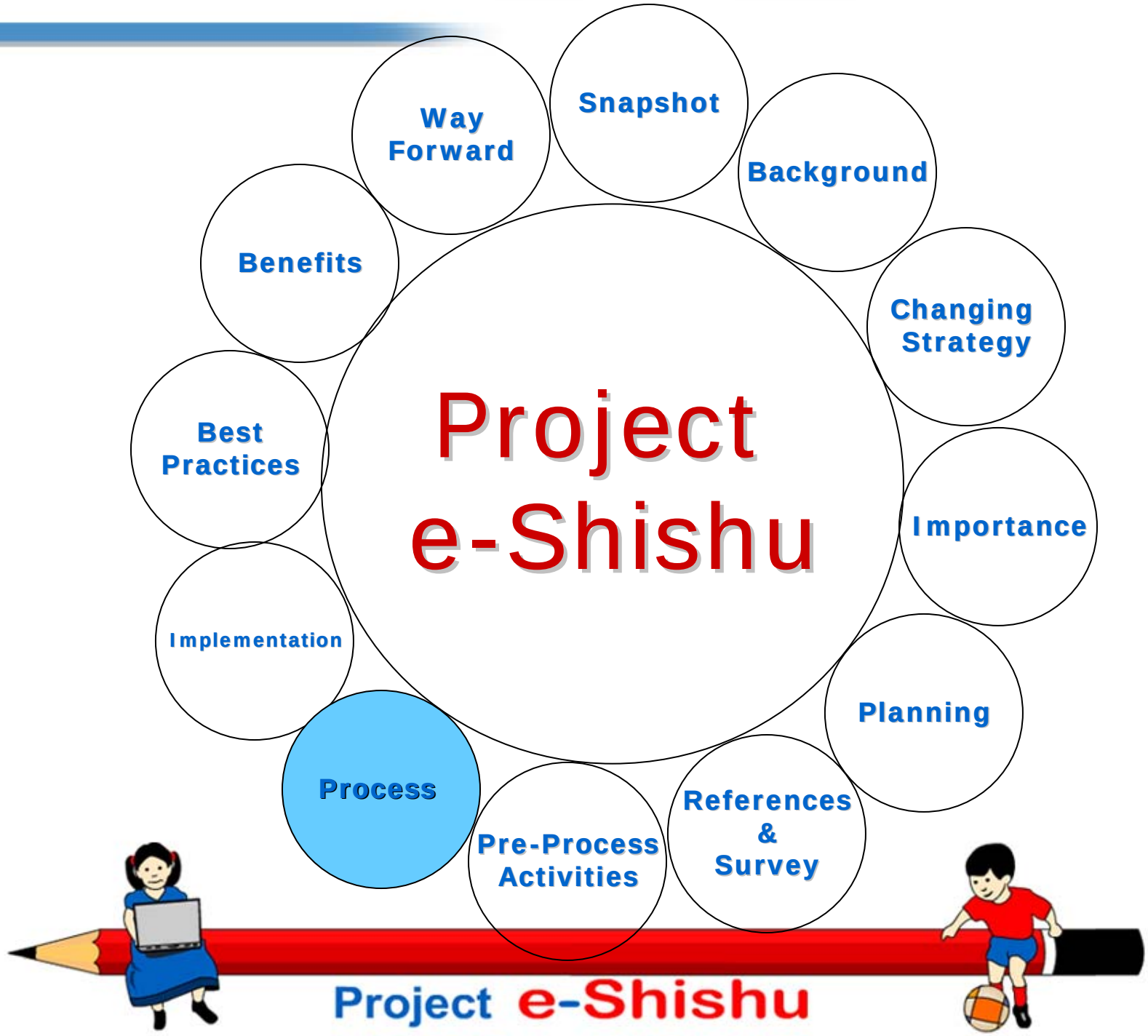
- Middleware
  - As the data related to child information was to be made public, the business logics were stored in the middleware. Proper security procedures were followed to ensure that no data is lost. Also planning was done on how the search reports can be made user friendly and selection of the data that are to be made public.
  - The control mechanism through which the district users would update the data was also analyzed carefully

- Change Requirement
  - Citizen Access: Any data related to Child as well as Household required to be made open to citizen to view. Website is the best medium to show these data to the citizen. So the data was required to be made public through OPEPA website . People could see the reports and search by query.
  - Organizational changes: Skilled people who can manage the entire system were identified and given the responsibilities. Different resource groups were also created to monitor the entire process at state, district, block and village level

• Capability Requirements

– **Training:** Proper training at different stages was required for the people who will work on the project. So training session at State as well as District, Block and Village level were required to be conducted.

– **Infrastructure:** The existing infrastructure was also required to be upgraded. Each Districts need to be connected to the state office so that the information can flow in time and in an efficient way without any hassle.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Process...

State's Vision and Strategy Planning

IT infrastructure Assessment

Proper technology for data Collection and verification.

Involvement of Stakeholders in the entire process.

ASSESMENT & EVALUATION

Develop e-Governance Strategy

1.IT Infrastructure
2.Connectivity
3.Citizen Centricity
4.Security & Privacy Policy
5.Standardization of Process

Prioritize on the requirements on different department/Intervention heads.

1.Reports
2.Implementation
3.Roles & responsibilities

Architecture diagram for Database. Prototype design for Application.

Finalization on ICR Forms and Verification process

1.Design Model
2.Deployment Model
3.System Integration

Identify IT infrastructure and Connectivity issues.

ANALYSIS & DESIGN

House hold Survey and data collection on ICR Sheets

Scanning, recognition and Verification through ICR technology

Application development for Error checking and Data updation.

Web-enabling data for citizen view.

Develop Infrastructure. VSAT Connectivity.

DEVELOPMENT PHASE

Error correction at State office and implementation of Application at District Servers.

Roll-out Implementation at all 30 districts with VSAT connectivity enabled, data synchronization in regular interval.

IMPLEMENTATION PHASE

Generation of Unique code for Household and Child.

- Pre-survey activities

  - Finalization of EMIS code
  - Finalization of Non-ICR forms
  - Training schedule
  - Team/Resource groups form for Supervision of the entire process
  - Awareness among the stakeholder on the project
  - Preparation of list of Govt., EGS/AIE Centers, Pvt. Recognized Schools and Pvt. Unrecognized Schools.
  - EMIS Code Generation of village wise schools by unique 7 digit code.
  - Pre-Survey of households on basis of Voter list to estimate the number of non-ICR sheet required.
  - Printing of Non-ICR sheets

- Training
  - State level training to the District Programmers on EMIS Code generation
  - State level training to the State resource Groups
  - District Level training to the District Resource Groups
  - Block Level training to the BRCCs and CRCCs.
  - Training at village level to the enumerators.

- Form Distribution
  - Forms were distributed to district head quarters from the state HQ.
  - From District, the forms were distributed to the blocks.
  - Distribution of Forms to the Enumerators from the Block Office.
  - Proper record keeping of the forms distributed to the enumerators.
- Household Survey
  - Household survey by the enumerators.
  - Filling up of household and Child data on the Non-ICR forms
  - Data validation
  - Collection of the Non-ICR forms at the Village/Ward, Block/ULB, District level.

- EMIS Code Generation
  - EMIC code was generated for each village.
  - This list was supplied to the enumerators who were identified to fill up the ICR forms.
- ICR Form Fill up
  - Out of 40000 Enumerators who were involved in the household survey, few of them were identified for filling up of ICR forms.
  - Proper training was given to them at Block/ULB before they fill up the data.
  - Supervisors were appointed at each locations to ensure that the forms are filled up correctly by the enumerators.
  - Forms were validated by the supervisors and reentering of the forms were done if found errors.

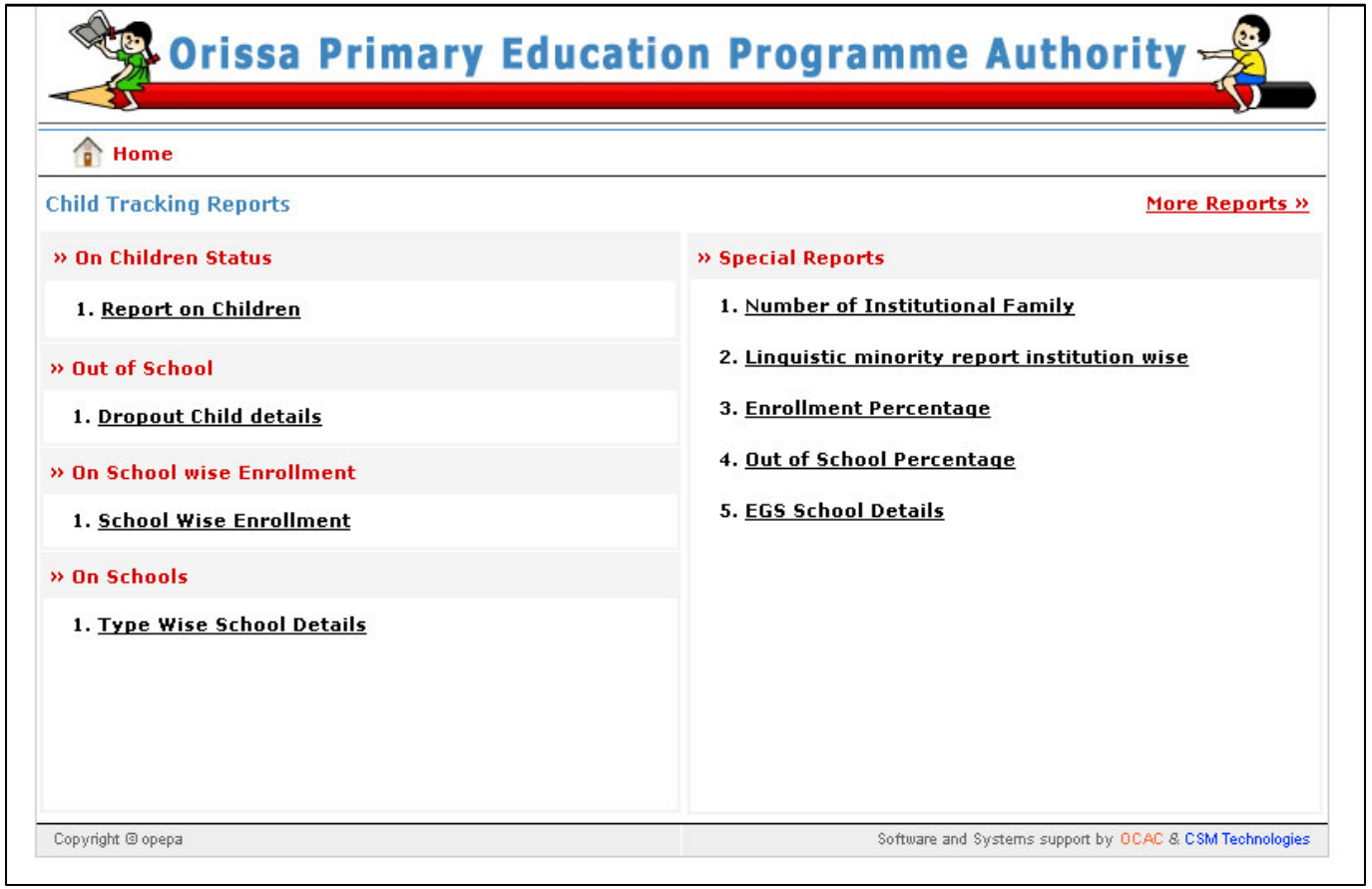
- Transportation of ICR forms
  - The filled up ICR forms were first collected from each locations at the block level.
  - They were then put in packets. Each packets contain 500 ICR sheet GP/Ward wise.
  - If any GP/Ward has more than 500 Sheets those were indexed properly.
  - All GP packets are consolidated and packed in cartons for each Block.
  - All packets were marked properly so that it will help in scanning process.
  - All the packets are sent to the scanning location at Bhubaneswar.
  - After the scanning process is completed they were sent back to the respective district offices

- Scanning, Recognition and Verification
  - After receiving the ICR forms from the districts, a list was prepared and crosschecked with the master data (GP/Ward no and Block Name) in the EMIS Code List.
  - 5 High-end Scanners were engaged for scanning purpose.
  - Nearly 2 Lakh ICR forms were scanned per day.
  - After scanning those forms were recognized by ABBYY form reader software.
  - The recognized data were first verified manually before transferring to the database.
  - The verified data were consolidated and exported to the district database using customized software.

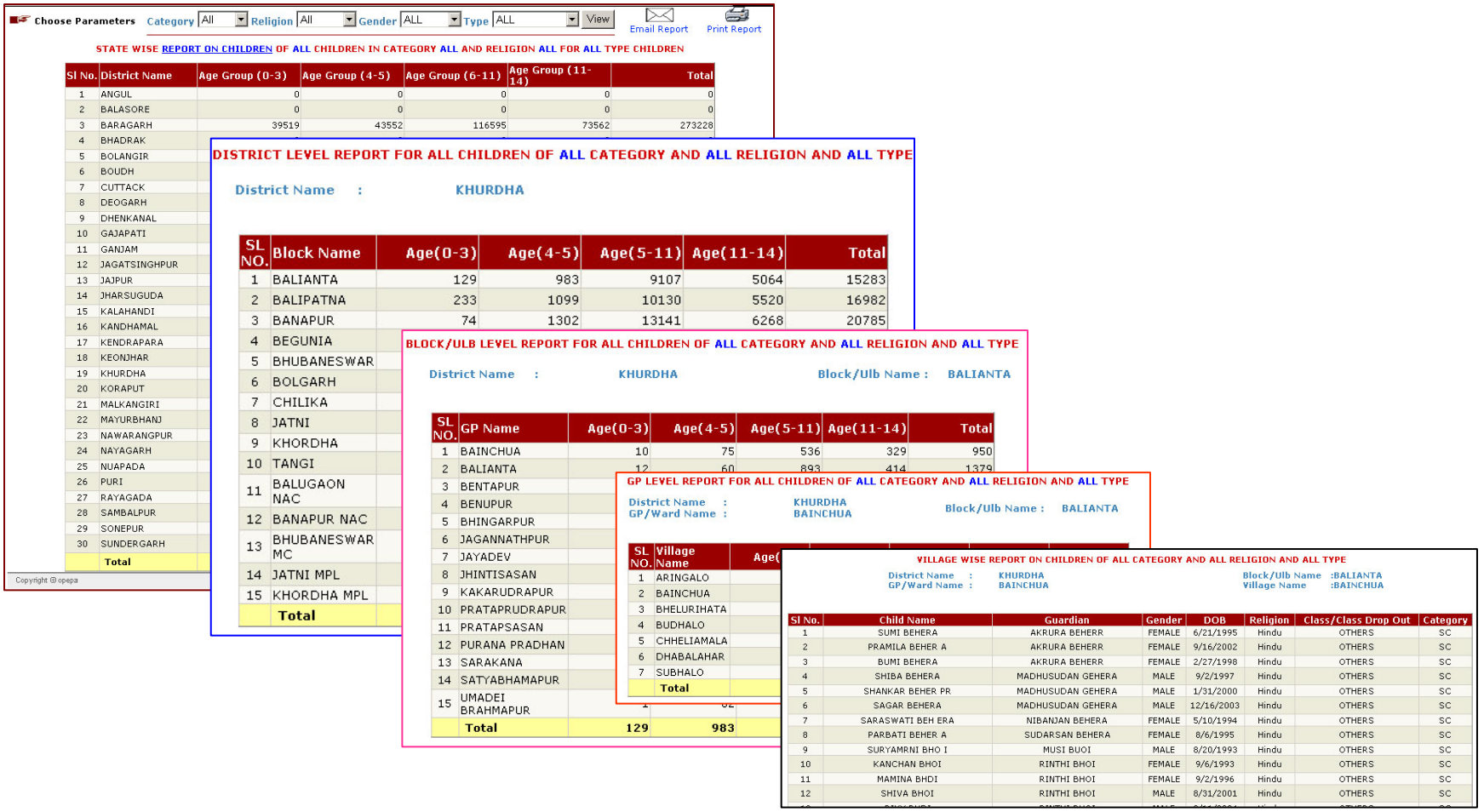
- Data clean up and consolidation
  - The exported data were first cleaned up to remove any garbage entry. This was done by another software.
  - Once the garbage data is cleaned up, the data was verified by special made software and the error reports were generated.
  - The district data then consolidated and transferred to the state database server.
- Error Correction
  - The error generated from the ICR forms are corrected with the help of the District programmers.
  - Proper training was given to the district programmers on error correction.
  - The scanned images of the original ICR forms were also provided to get a clear picture on what data was filled up on the ICR Sheet by the enumerators.

- Reports Generation
  - While the data was being collected, scanned and verified, the reports required for OPEPA were developed using some dummy data.
  - Once the Data was consolidated district wise, the reports were checked and further enhancements were incorporated.
  - Special reports were then designed that can support in decision making

Sample Reports



Sample Reports – Age group wise Children



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STATE WISE REPORT ON CHILDREN OF ALL CHILDREN IN CATEGORY ALL AND RELIGION ALL FOR ALL TYPE CHILDREN

Sl No.	District Name	Age Group (0-3)	Age Group (4-5)	Age Group (6-11)	Age Group (11-14)	Total
1	ANGUL	0	0	0	0	0
2	BALASORE	0	0	0	0	0
3	BARAGARH	39519	43552	116595	73562	273228
4	BHADRAK					
5	BOLANGIR					
6	BOUDH					
7	CUTTACK					
8	DEOGARH					
9	DHENKANAL					
10	GAJAPATI					
11	GANJAM					
12	JAGATSINGHPUR					
13	JAJPUR					
14	JHARSUGUDA					
15	KALAHANDI					
16	KANDHAMAL					
17	KENDRAPARA					
18	KEONJHAR					
19	KHURDHA					
20	KORAPUT					
21	MALKANGIRI					
22	MAYURBHANJ					
23	NAWARANGPUR					
24	NAYAGARH					
25	NUAPADA					
26	PURI					
27	RAYAGADA					
28	SAMBALPUR					
29	SONEPUR					
30	SUNDERGARH					
	Total					

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DISTRICT LEVEL REPORT FOR ALL CHILDREN OF ALL CATEGORY AND ALL RELIGION AND ALL TYPE

District Name : KHURDHA

SL NO.	Block Name	Age(0-3)	Age(4-5)	Age(5-11)	Age(11-14)	Total
1	BALIANTA	129	983	9107	5064	15283
2	BALIPATNA	233	1099	10130	5520	16982
3	BANAPUR	74	1302	13141	6268	20785
4	BEGUNIA					
5	BHUBANESWAR					
6	BOLGARH					
7	CHILIKA					
8	JATNI					
9	KHORDHA					
10	TANGI					
11	BALUGAON NAC					
12	BANAPUR NAC					
13	BHUBANESWAR MC					
14	JATNI MPL					
15	KHORDHA MPL					
	Total					

BLOCK/ULB LEVEL REPORT FOR ALL CHILDREN OF ALL CATEGORY AND ALL RELIGION AND ALL TYPE

District Name : KHURDHA Block/Ulb Name : BALIANTA

SL NO.	GP Name	Age(0-3)	Age(4-5)	Age(5-11)	Age(11-14)	Total
1	BAINCHUA	10	75	536	329	950
2	BALIANTA	12	60	893	414	1379
3	BENTAPUR					
4	BENUPUR					
5	BHINGARPUR					
6	JAGANNATHPUR					
7	JAYADEV					
8	JHINTISASAN					
9	KAKARUDRAPUR					
10	PRATAPRUDRAPUR					
11	PRATAPSASAN					
12	PURANA PRADHAN					
13	SARAKANA					
14	SATYABHAMAPUR					
15	UMADEI BRAHMAPUR					
	Total	129	983			

GP LEVEL REPORT FOR ALL CHILDREN OF ALL CATEGORY AND ALL RELIGION AND ALL TYPE

District Name : KHURDHA
GP/Ward Name : BAINCHUA
Block/Ulb Name : BALIANTA

SL NO.	Village Name
1	ARINGALO
2	BAINCHUA
3	BHELURIHATA
4	BUDHALO
5	CHHELIAMALA
6	DHABALAHAR
7	SUBHALO
	Total

VILLAGE WISE REPORT ON CHILDREN OF ALL CATEGORY AND ALL RELIGION AND ALL TYPE

District Name : KHURDHA
GP/Ward Name : BAINCHUA
Block/Ulb Name : BALIANTA
Village Name : BAINCHUA

Sl No.	Child Name	Guardian	Gender	DOB	Religion	Class/Class Drop Out	Category
1	SUMI BEHERA	AKRURA BEHERR	FEMALE	6/21/1995	Hindu	OTHERS	SC
2	PRAMILA BEHER A	AKRURA BEHERR	FEMALE	9/16/2002	Hindu	OTHERS	SC
3	BUMI BEHERA	AKRURA BEHERR	FEMALE	2/27/1998	Hindu	OTHERS	SC
4	SHIBA BEHERA	MADHUSUDAN GEHERA	MALE	9/2/1997	Hindu	OTHERS	SC
5	SHANKAR BEHER PR	MADHUSUDAN GEHERA	MALE	1/31/2000	Hindu	OTHERS	SC
6	SAGAR BEHERA	MADHUSUDAN GEHERA	MALE	12/16/2003	Hindu	OTHERS	SC
7	SARASWATI BEH ERA	NIBANJAN BEHERA	FEMALE	5/10/1994	Hindu	OTHERS	SC
8	PARBATI BEHER A	SUDARSAN BEHERA	FEMALE	8/6/1995	Hindu	OTHERS	SC
9	SURYAMRNI BHO I	MUSI BUOI	MALE	8/20/1993	Hindu	OTHERS	SC
10	KANCHAN BHOI	RINTHI BHOI	FEMALE	9/6/1993	Hindu	OTHERS	SC
11	MAMINA BHDI	RINTHI BHOI	FEMALE	9/2/1996	Hindu	OTHERS	SC
12	SHIVA BHOI	RINTHI BHOI	MALE	8/31/2001	Hindu	OTHERS	SC

Sample Reports – Enrollment Details

STATE LEVEL SCHOOL WISE ENROLLMENT DETAILS OF GENDER ALL OF CATEGORY ALL AND RELIGION ALL

		Govt.		EGS/AIE		Pvt. Recognised		Pvt. Unrecognised		Total	
SLNO	District Name	No of School	Enrollment	No of School	Enrollment	No of School	Enrollment	No of School	Enrollment	No of School	Enrollment
1	ANGUL	1586	0	455	0	156	0	55	0	2252	0
2	BALASORE	2506	0	1104	0	293	0	243	0	4146	0
3	BARAGARH	1812	157307	490	10693	105	7040	113	5132	2520	180172
4	BHADRAK	1662	0	726	0	144	0	125	0	2657	0
5	BOLANGIR	2272	0	544	0	138	0	57	0	3011	0
6	BOUDH	660	0	252	0	35	0	29	0	976	0
7	CUTTACK	2686	209057	537	7264	191	5319	367	8668	3781	230308
8	DEOGARH	557	32424	319	5133	42	1081	17	271	935	38909
9	DHENKANAL	1488	0	364	0	115	0	100	0	2067	0
10	GAJAPATI	1167	432								
11	GANJAM	3673	0								
12	JAGATSINGHPUR	1362	0								
13	JAJPUR	2146	232								
14	JHARSUGUDA	726	330								
15	KALAHANDI	1969	160								
16	KANDHAMAL	1631	0								
17	KENDRAPARA	1903	117								
18	KEONJHAR	2512	0								
19	KHURDHA	1523	175								
20	KORAPUT	2154	142								
21	MALKANGIRI	1008	610								
22	MAYURBHANJ	3661	0								
23	NAWARANGPUR	1377	121								
24	NAYAGARH	1141	851								
25	NUAPADA	911	600								
26	PURI	1895	0								
27	RAYAGADA	1708	744								
28	SAMBALPUR	1297	0								
29	SONEPUR	969	753								
30	SUNDERGARH	2416	0								
	Grand Total:	52378	178								

BLOCK/ULB LEVEL SCHOOL WISE ENROLMENT DETAILS OF GENDER ALL OF CATEGORY ALL AND RELIGION ALL

		Govt.		EGS/AIE		Pvt. Recognised		Pvt. Unrecognised		Total	
SlNO	Block Name	No of School	Enrollment	No of School	Enrollment	No of School	Enrollment	No of School	Enrollment	No of School	Enrollment
1	BALIANTA	124	10291	21	379	16	1295	11	466	172	12431
2	BALIPATNA	142	12187	34	586	18	833	16	429	210	14035
3	BANAPUR	121	13778	19	564	12	825	13	924	165	16091
4	BEGUNIA										
5	BHUBANESWAR										
6	BOLGARH										
7	CHILIKA										
8	JATNI										
9	KHORDHA										
10	TANGI										
11	BALUGAON NAC										
12	BANAPUR NAC										
13	BHUBANESWAR MC										
14	JATNI MPL										
15	KHORDHA MPL										
	Grand Total:										

GP/WARD LEVEL SCHOOL WISE ENROLMENT DETAILS OF GENDER ALL OF CATEGORY ALL AND RELIGION ALL

		Govt.		EGS/AIE		Pvt. Recognised		Pvt. Unrecognised		Total	
SlNO	GP Name	No of School	Enrollment	No of School	Enrollment	No of School	Enrollment	No of School	Enrollment	No of School	Enrollment
1	BAINCHUA	6	587	2	38	1	74	0	0	9	699
2	BALIANTA	11	925	1	26	1	124	1	22	14	1097
3	BENTAPUR										
4	BENUPUR										
5	BHINGARPUR										
6	JAGANNATHPUR										
7	JAYADEV										
8	JHINTISASAN										
9	KAKARUDAPUR										
10	PRATA										
11	PRATA										
12	PURAN										
13	SARAK										
14	SATYA										
15	UMADE BRAHN										

VILLAGE LEVEL SCHOOL WISE ENROLMENT DETAILS OF GENDER ALL OF CATEGORY ALL AND RELIGION ALL

SLNO	Institute Name	I	II	III	IV	V	VI	VII	VIII	IX	Total
1	ARINGOL EGS CENTRE	3	4	1	1	0	0	0	0	0	9
2	BAINCHUA P S	12	17	24	27	21	1	1	0	0	103
3	BAINCHUA U P	1	0	0	1	1	65	66	0	1	135
4	BISWANATH C P S	32	39	35	59	38	1	0	0	0	204
											30
											63
											18
											24
											56
											642

SCHOOL LEVEL ENROLMENT DETAILS AND RELIGION ALL OF ARINGOL EGS CENTRE

Print Preview

SLNo	ChildName	Guardian	Relation	DOB	Class	Gender	Category	Religion	M Tong
1	BIJAYA KUMAR MALLICK	BHAGABAN MALLICK	Father	9/12/1996	CLS-III	Male	SC	Hindu	Oriya
2	JHILI JENA	KARTIKA JENA	Mother	6/23/2001	CLS-I	Female	OBC	Hindu	Oriya
3	MAMATA MALLIC K	BHAGABAN MALLICK	Father	9/15/1994	CLS-IV	Female	SC	Hindu	Oriya
4	MANAS MEKAP	PRHVAKAR MEKAP	Father	6/30/1999	CLS-I	Male	OBC	Hindu	Oriya
5	NIRANJAN MALL ICK	BINOD MALLICK	Father	3/14/1995	CLS-II	Male	SC	Hindu	Oriya
6	NIRANJAN SWAI N	BATA KRUSANA SWAIN	Father	10/28/1999	CLS-II	Male	OBC	Hindu	Oriya
7	PRAFULLA NAYA K	DILLIP NAYAK	Father	3/17/1998	CLS-II	Male	SC	Hindu	Other Language
8	SANTOSH MEKAP	PRHVAKAR MEKAP	Father	5/2/1997	CLS-II	Male	OBC	Hindu	Oriya
9	SURYA KANTA M ALLICK	KRUSHMA CH MALLICK	Father	10/4/1999	CLS-I	Male	SC	Hindu	Oriya

Sample Reports – Out of School Children

STATE LEVEL REPORT ON OUT OF SCHOOL CHILDREN OF ALL CATEGORY ALL RELIGION AND DROPPED IN CLASS ALL

SLNO	DistrictName	Age Group(6-11)			Age Group(11-14)			Total		
		Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total
1	ANGUL	0	0	0	0	0	0	0	0	0
2	BALASORE	0	0	0	0	0	0	0	0	0
3	BARAGARH	6								
4	BHADRAK									
5	BOLANGIR									
6	BOUDH									
7	CUTTACK	3								
8	DEOGARH	1								
9	DHENKANAL									
10	GAJAPATI	4								
11	GANJAM									
12	JAGATSINGHPUR									
13	JAJPUR	5								
14	JHARSUGUDA	1								
15	KALAHANDI	14								
16	KANDHAMAL									
17	KENDRAPARA	2								
18	KEONJHAR									
19	KHURDHA	7								
20	KORAPUT	11								
21	MALKANGIRI	4								
22	MAYURBHANJ									
23	NAWARANGPUR	19								
24	NAYAGARH	720	657	1377	701					
25	NUAPADA	1887	2155	4042	1643					
26	PURI	0	0	0	0					
27	RAYAGADA	605	723	1328	2125					
28	SAMBALPUR	0	0	0	0					
29	SONEPUR	173	164	337	574					
30	SUNDERGARH	0	0	0	0					
	Total:	11646	12814	24460	19718					

BLOCK WISE REPORT ON OUT OF SCHOOL CHILDREN OF ALL CATEGORY ALL RELIGION AND DROPPED IN CLASS ALL

SLNO	Block/ULB Name	Age Group(6-11)			Age Group(11-14)			Total		
		Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total
1	BALIANTA	31	24	55	53	46	99	84	70	154
2	BALIPATNA	38	29	67	40	42	82	78	71	149
3	BALUGAON NAC	7	1	8	25	23	48	32	24	56
4	BANAPUR	33	27	60	78	93	171	111	120	231
5	BANAPUR NAC									
6	BEGUNIA									
7	BHUBANESWAR									
8	BHUBANESWAR MC									
9	BOLGARH									
10	CHILIKA									
11	JATNI									
12	JATNI MPL									
13	KHORDHA									
14	KHORDHA MPL									
15	TANGI									
	Total:									

Parameters Category All Class Dropped Out All Religion All View Email Report Print Report

GP WISE REPORT ON OUT OF SCHOOL CHILDREN OF ALL CATEGORY ALL RELIGION AND DROPPED IN CLASS ALL

SLNO	GP/Ward Name	Age Group(6-11)			Age Group(11-14)			Total		
		Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total
1	BAINCHUA	6	2	8	8	7	15	14	9	23
2	BALIANTA	3	3	6	7	5	12	10	8	18
3	BENTAPUR	2	0	2	4	3	7	6	3	9
4	BENUPUR	1	1	2	1	3	4	2	4	6
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										

Parameters Category All Class Dropped Out All Religion All View Email Report Print Report

VILLAGE WISE REPORT ON OUT OF SCHOOL CHILDREN OF ALL CATEGORY ALL RELIGION AND DROPPED IN CLASS ALL

SLNO	Village Name	Age Group(6-11)			Age Group(11-14)			Total		
		Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total
1	ARINGALO	0	0	0	0	0	0	0	0	0
2	BAINCHUA									
3	BHELURIHATA									
4	BUDHALO									
5	CHHELIAMALA									
6	DHABALAHAR									
7	SUBHALO									
	Total									

VILLAGE LEVEL REPORT ON OUT OF SCHOOL CHILDREN

SL No	Name	Guardian Name	Gender	DOB	Religion	Class DropOut	Reason	Home Language
1	BASANTA MAHAN TY	DHADI MAHANTY	Male	3/10/1994	Hindu	5	School away from Home	Oriya
2	BIRANCHI NAYA K	DAMODAR AAYAK	Male	4/16/1994	Hindu	4	Other Valid reason	Oriya
3	BLNODINR OJHA	BANSIDHAR OJHA	Female	7/4/1996	Hindu	1	Other Valid reason	Oriya
4	CHINTU SAHOO	CHAITANYA SAHOO	Male	3/1/1998	Hindu	1	Other Valid reason	Oriya
5	LIPAN PRUSTI	BALI BEWA	Male	6/27/1999	Hindu	7	Other Valid reason	Oriya
6	MANASI SAHOO	AUNA CHANDRA SAHOO	Female	6/27/1994	Sikh	7	Other Valid reason	Oriya
7	RAJES MAHARAN A	BANSIDHAR OJHA	Male	6/18/2000	Hindu	1	Other Valid reason	Oriya
8	RAJES SAHOO	SIBA SAHOO	Male	7/16/1994	Hindu	1	Other Valid reason	Oriya
9	RAKES KUMAR S AHOO	SRIDHARSAHOO	Male	4/21/1993	Hindu	1	Other Valid reason	Oriya
10	RAKES OJHA	JADUMANI OPHA	Male	9/30/2000	Hindu	1	Other Valid reason	Oriya
11	RANJAN SAHDO	SHYAMA SUNDAR SAHDO	Male	6/15/1994	Hindu	3	Due to Poverty	Oriya
12	SABITA SAHOO	MAHENDRA SAHOO	Female	3/15/1993	Hindu	8	Due to Poverty	Oriya
13	SANTOS SAHOO	ACHYTA SMHOO	Male	9/18/1997	Hindu	1	Other Valid reason	Oriya
14	SARCJINI MOHA PATRA	PRABHAT MDHAPATRA	Female	2/7/2000	Hindu	7	Other Valid reason	Oriya
15	TVTU SAHOO	MAHESWARA SAHOO	Male	3/22/1994	Hindu	5	Failed	Oriya

Sample Reports – Projection Report

STATE LEVEL REPORT ON YEARWISE ENROLLMENT

Print Preview

District Name	Projection on 2006			Projection on 2007			Projection on 2008			Projection on 2009			Projection on 2010		
	Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total
ANGUL	0	0	0	0											
BALASORE	0	0	0	0											
BARAGARH	9882	9138	19020	10978											
BHADRAK	0	0	0	0											
BOLANGIR	0	0	0	0											
BOUDH	0	0	0	0											
CUTTACK	12602	11487	24089	14163											
DEOGARH	2301	2275	4576	2904											
DHENKANAL	0	0	0	0											
GAJAPATI	4618	4500	9118	4932											
GANJAM	0	0	0	0											
JAGATSINGHPUR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JAJPUR	13541	12169	25710	15374	14253	29627	14877	13901	28778	13872	12888	26760	15922	14858	30780
JHARSUGUDA	2239	2021	4260	2537	2385	4922	2397	2291	4688	2311	2172	4483	2785	2666	5451
KALAHANDI	14694	14579	29273	16566	16432	32998	15923	15661	31584	13550	13218	26768	15342	14766	30108
KAND															
KEND															
KEON															
KHUR															
KORA															
MALK															
MAYU															
NAWA															
NAYA															
NUAP															
PURI															
RAYA															
SAMB															
SONE															
SUND															

BLOCK/WARD LEVEL REPORT ON YEARWISE ENROLLMENT

District Name : DEOGARH

Print Preview

Block Name	Projection on 2006			Projection on 2007			Projection on 2008			Projection on 2009			Projection on 2010		
	Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total
BARKOTE	697	710	1407	901	866	1767	851	846	1697	869	0	869	932	937	1869
REAMAL	902	875	1777	1065	976	2041	1036	951	1987	875	0	875	1005	810	1815
TILEIBANI	541	517	1058	743	687	1430	562	567	1129	629	0	629	716	678	1394
DEOGARH MPL	161	173	334	195	193	388	175	175	350	186	0	186	168	175	343
Grand Total:	**2301**	**2275**	**4576**	**2904**	**2722**	**5626**	**2624**	**2539**	**5163**	**2559**	**0**	**2559**	**2821**	**2600**	**5421**

GP LEVEL REPORT ON YEARWISE ENROLLMENT

District Name : DEOGARH Block/Ulb Name : BARKOTE

Print Preview

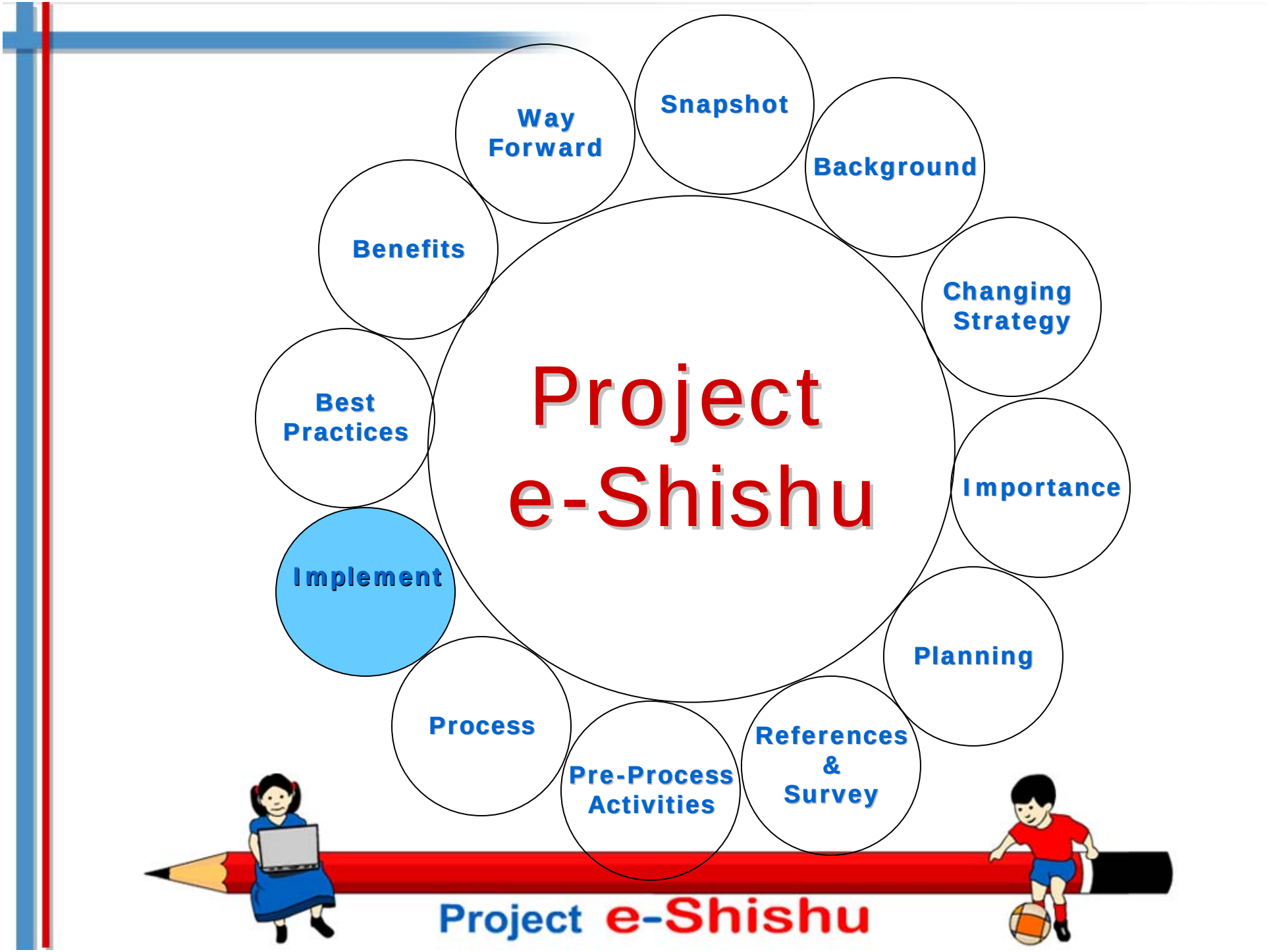
GP Name	Projection on 2006			Projection on 2007			Projection on 2008			Projection on 2009			Projection on 2010		
	Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total
Balanda	21	36	57	35	30	65	36	35	71	31	0	31	34	34	68
Ballam	28	36	64	49	59	108	51	46							
Bamparada	67	70	137	84	80	164	69	85	1						
Basalai	44	40	84	37	48	85	48	53	1						
Bijaynagar	26	24	50	33	23	56	33	24							
Dandasinga	48	49	97	61	46	107	50	55	1						
Danra	34	42	76	52	50	102	55	51	1						
Dantaribahal	28	25	53	29	27	56	49	36							
Gurusang	33	26	59	38	27	65	36	31							
Jharakandhal	1	5	6	5	4	9	4	8							
Kadapada	8	11	19	16	13	29	13	12							
Kaliapal	22	28	50	29	31	60	25	31							
Kalla	53	37	90	66	62	128	80	45	1						
Kandhal	28	28	56	37	27	64	43	45							
Kantapali	34	37	71	54	37	91	29	31							
Kaunsibahal	43	36	79	43	52	95	28	32							
Kelda	12	25	37	29	34	63	23	32							
Madhyapur	37	21	58	41	46	87	37	43							
Raitabahal	29	29	58	35	41	76	47	37							
Rambhei	19	31	50	25	32	57	24	24							
Saruali	53	44	97	70	63	133	44	52							
Singsal	29	30	59	33	34	67	27	38							
Grand Total:	**697**	**710**	**1407**	**901**	**866**	**1767**	**851**	**846**	16						

REPORT ON YEARWISE ENROLLMENT FOR VILLAGE BAMPARDA

District Name : DEOGARH Block/Ulb Name : BARKOTE
GP/Ward Name : BAMPARADA Village Name : BAMPARDA

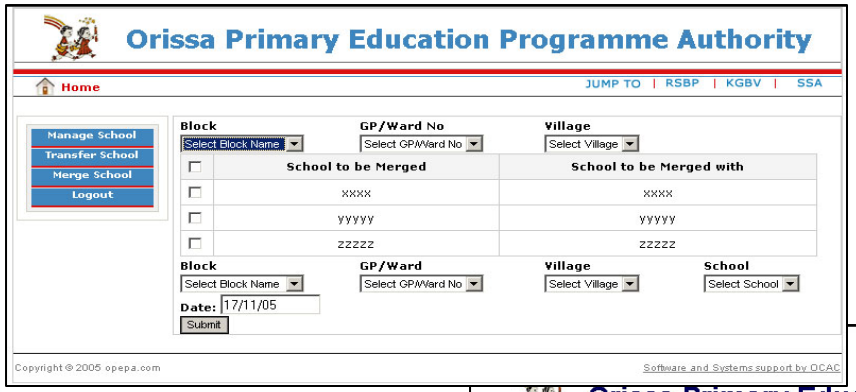
Print Preview

Year	Child Name	Guardian	Relation	DOB	Gender	Category	Religion	Mother Tongue
2006	ABHISEKHK NAYAK	TRINATH NAYAK	Father	12/3/2001	Male	OBC	Hindu	Oriya
2006	ALOK NAYAK	PURUSOTTAM NAYAK	Father	10/15/2001	Male	OBC	Hindu	Oriya
2006	ARNAPURNA PATRA	SURJAKANTA PATRA	Father	11/11/2001	Female	SC	Hindu	Oriya
2006	BAIJAYANTI SAHU	BENU BEHERA	Father	10/8/2001	Female	OBC	Hindu	Oriya
2006	BINATI BEHERA	MADAN MO BEHQRA	Father	6/8/2001	Male	SC	Hindu	Oriya
2006	CHANDAN BEHERA	LALITA BEHERA	Father	8/11/2001	Male	SC	Hindu	Oriya
2006	CHUMUKI SAHU	PABITRAMOHAN SAHU	Father	12/14/2001	Female	OBC	Hindu	Oriya
2006	DEBAKI NAIK	BHUBANESWARA NAIK	Father	11/3/2001	Female	SC	Hindu	Oriya
2006	DEBENDRA DASH	GOPABANDHU DASH	Father	11/18/2001	Male	Others	Hindu	Oriya
2006	GFIVA NAYAK	BDBOLI NAYAK	Father	8/5/2001	Male	ST	Hindu	Oriya
2006	JAHNA DEHURY	ISWAR DEHURY	Father	5/8/2001	Female	OBC	Hindu	Oriya
2006	KIRTAN LUHURA	CHAKRADHARA PRADHAN	Father	6/3/2001	Male	ST	Hindu	Oriya
2006	LrpTBEHERA	CHACA BEHGRA	Father	9/6/2001	Female	SC	Jain	Oriya
2006	MALA SAHOO	MEGHU SAHOO	Father	1/12/2001	Female	OBC	Hindu	Oriya
2006	MANJUBALA NAYAK	DWARY NAYAK	Father	8/13/2001	Female	OBC	Hindu	Oriya
2006	MIKIKUMARI PRASAD	RAMBABU PRASAD	Father	12/5/2001	Female	OBC	Hindu	Oriya
2006	MINA MAHAKUL	BHIKARI MAHAKUL	Father	9/8/2001	Female	OBC	Hindu	Oriya
2006	MOTI BEHERA	TRILOCHANA BEHERA	Father	8/25/2001	Female	SC	Hindu	Oriya
2006	PALAK ACHARYA	ISWAR CH ACHARYA	Guardian	11/2/2001	Female	Others	Hindu	Oriya
2006	RACHANA BEHERA	SURESH BEHERA	Father	5/9/2001	Female	SC	Hindu	Oriya
2006	RAKES PRADHAN	PRAFULLA PRADHAN	Father	7/11/2001	Male	OBC	Hindu	Oriya
2006	RILU DEHURY	CHACHERI DEHURY	Father	6/7/2001	Male	ST	Hindu	Oriya
2006	RITIKRUSAN PRADHAN	BIREN PRADHAN	Father	8/17/2001	Male	OBC	Hindu	Oriya


Project
e-Shishu
Snapshot
Background
Changing Strategy
Importance
Planning
References & Survey
Pre-Process Activities
Process
Implement
Best Practices
Benefits
Way Forward
Project e-Shishu

Implementation...

- Application Development
  - Requirement gathering for the project
  - Architecture design
  - Development of Child Tracking System
  - Development of Error Tracking/Correction Software.
  - Deployment of the application in State as well as District application servers.
  - Utilities Development for data consolidation at state level.
  - Software development for Integration of GIS data of the schools.
  - Software development for integration of teachers information.


Orissa Primary Education Programme Authority
Home
JUMP TO | RSBP | KGBV | SSA
Manage School
Transfer School
Merge School
Logout
Block
GP/Ward No
Village
Select Block Name
Select GP/Ward No
Select Village
School to be Merged
School to be Merged with
xxxx
yyyyy
zzzzz
Block
GP/Ward
Village
School
Select School
Date: 17/11/05
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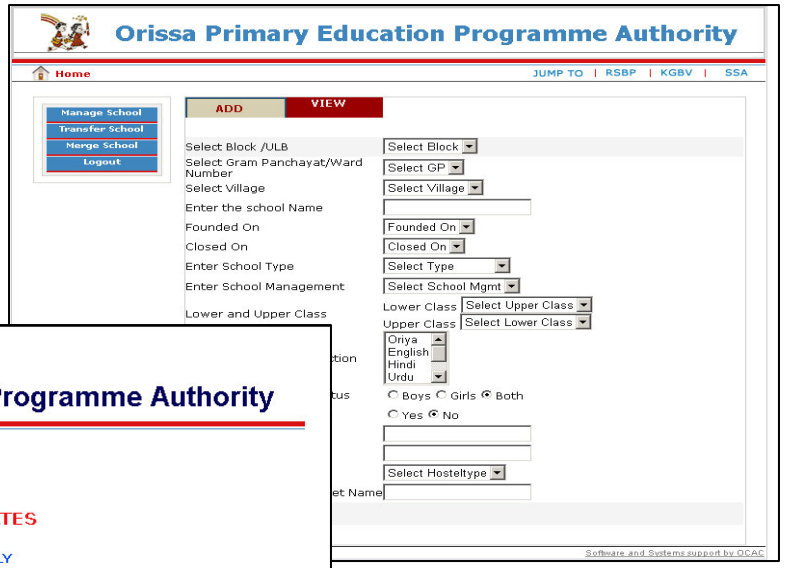
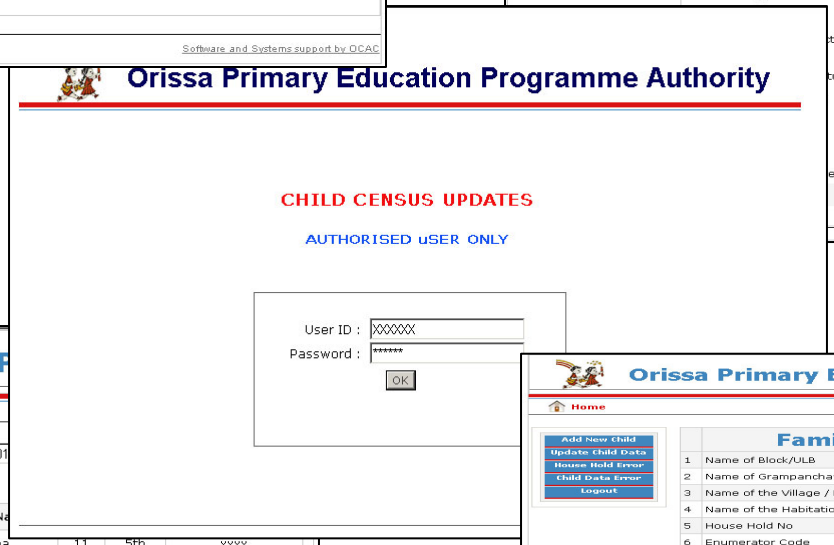
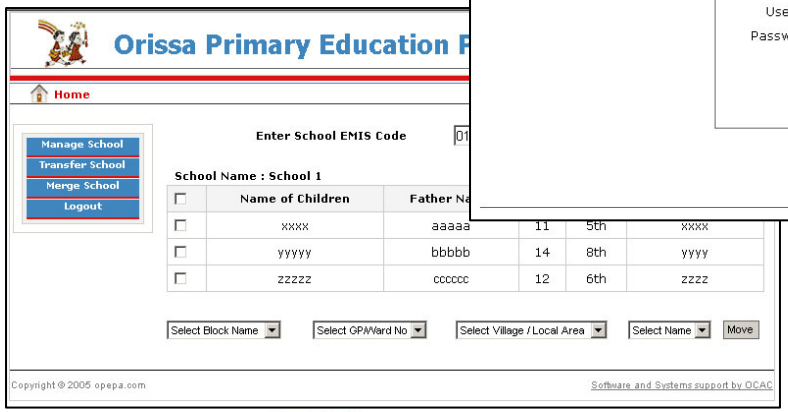

Orissa Primary Education Programme Authority
Home
JUMP TO | RSBP | KGBV | SSA
Manage School
Transfer School
Merge School
Logout
ADD
VIEW
Select Block /ULB
Select Gram Panchayat/Ward Number
Select Village
Enter the school Name
Founded On
Closed On
Enter School Type
Enter School Management
Lower and Upper Class
Lower Class
Upper Class
Oriya
English
Hindi
Urdu
Boys
Girls
Both
Yes
No
Select Hosteltype
Software and Systems support by OCAC


Orissa Primary Education Programme Authority
CHILD CENSUS UPDATES
AUTHORISED uSER ONLY
User ID :
Password :
OK


Orissa Primary Education P
Home
Manage School
Transfer School
Merge School
Logout
Enter School EMIS Code
School Name : School 1
Name of Children
xxxx
aaaaa
11
5th
xxxx
yyyyy
bbbbb
14
8th
yyyy
zzzzz
ccccc
12
6th
zzzz
Select Block Name
Select GP/Ward No
Select Village /Local Area
Select Name
Move
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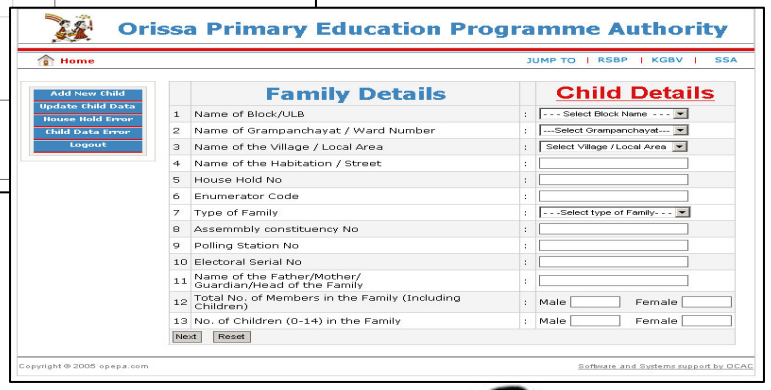
Orissa Primary Education Programme Authority
Home
JUMP TO | RSBP | KGBV | SSA
Add New Child
Update Child Data
House Hold Error
Child Data Error
Logout
Family Details
Child Details
1 Name of Block/ULB
2 Name of Grampanchayat / Ward Number
3 Name of the Village / Local Area
4 Name of the Habitation / Street
5 House Hold No
6 Enumerator Code
7 Type of Family
8 Assemmbly constituency No
9 Polling Station No
10 Electoral Serial No
11 Name of the Father/Mother/ Guardian/Head of the Family
12 Total No. of Members in the Family (Including Children)
13 No. of Children (0-14) in the Family
Male
Female
Next
Reset
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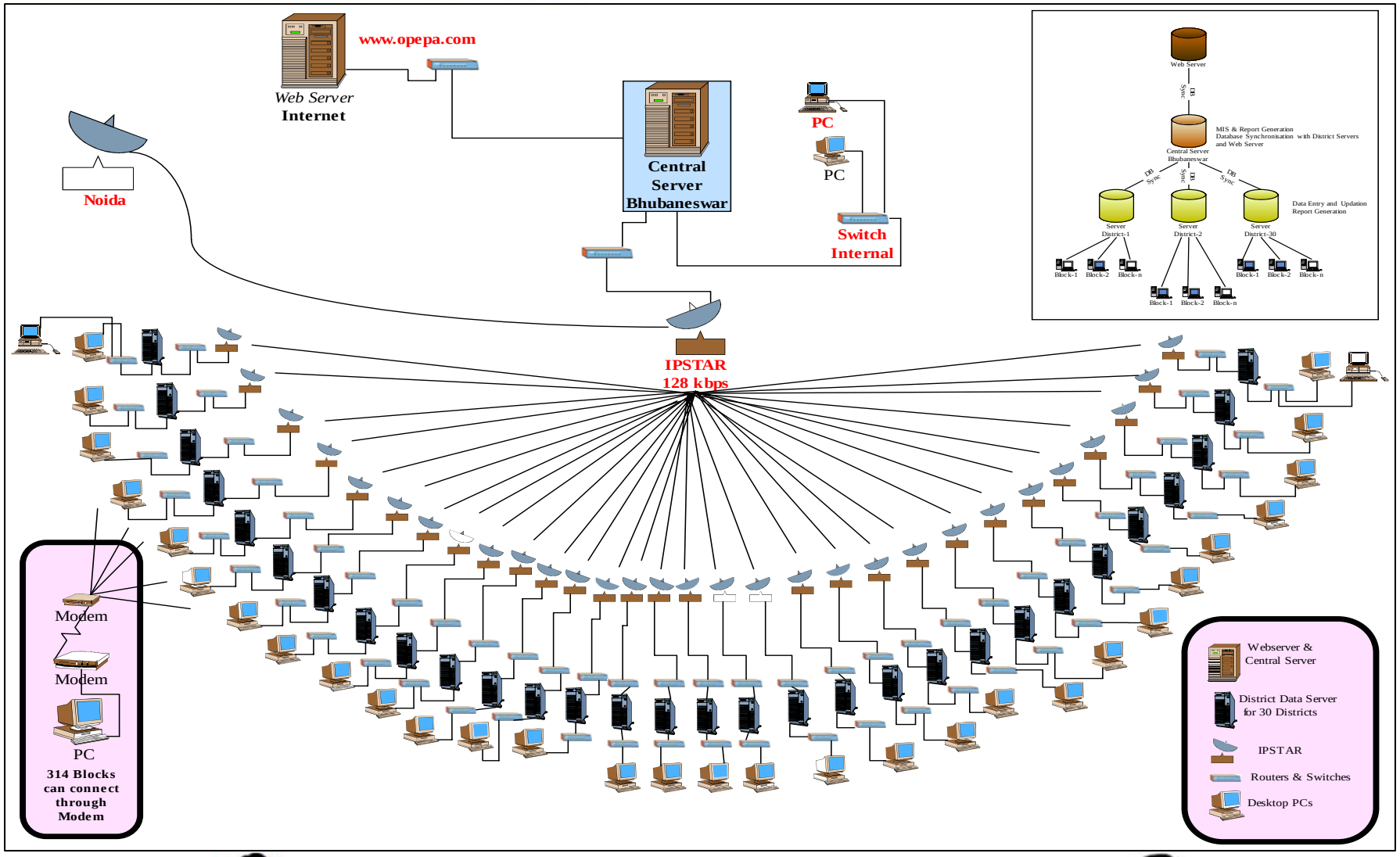
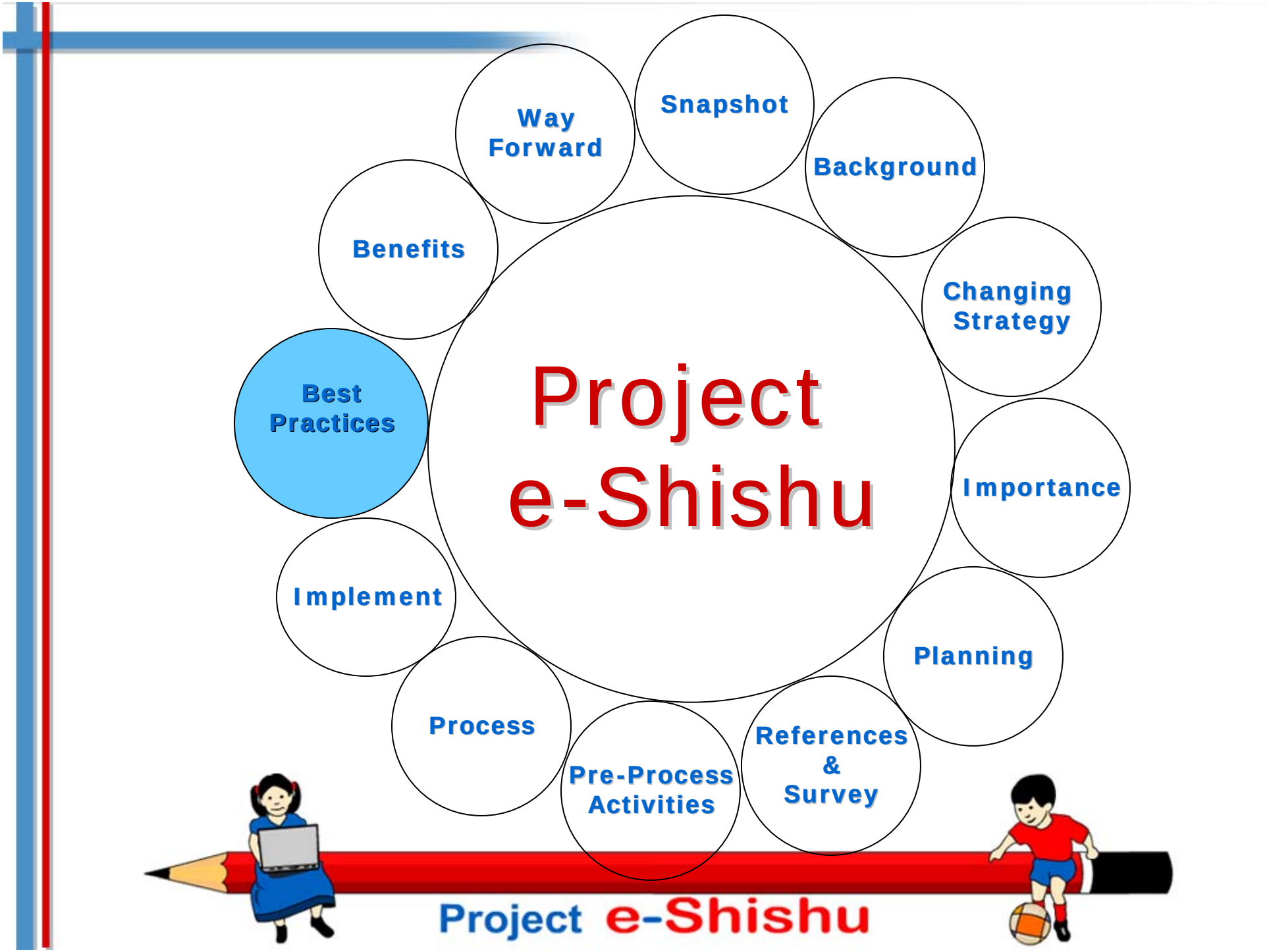
Project e-Shishu

- Infrastructure Development
  - State Level planning on the infrastructure requirements for the project.
  - Procurement of State Servers and District Servers.
  - Procurement of VSAT.
  - Survey for VSAT installation at State HQ and 30 districts.
  - Site visit for Earth Insulation, Power Earthing for VSAT.
  - VSAT installation at all 31 locations.
  - Installation of Servers at all districts.
  - Connection of all the district server with the state server through VSAT connectivity


www.opepa.com
Web Server
Internet
Noida
Central
Server
Bhubaneswar
PC
PC
Switch
Internal
IPSTAR
128 kbps
Modem
Modem
PC
314 Blocks
can connect
through
Modem
Web Server
Sync
DB
MIS & Report Generation
Database Synchronisation with District Servers
and Web Server
Central Server
Bhubaneswar
DB Sync
Server
District-1
Server
District-2
Server
District-30
Data Entry and Updation
Report Generation
Block-1
Block-2
Block-n
Webserver &
Central Server
District Data Server
for 30 Districts
IPSTAR
Routers & Switches
Desktop PCs

Project e-Shishu

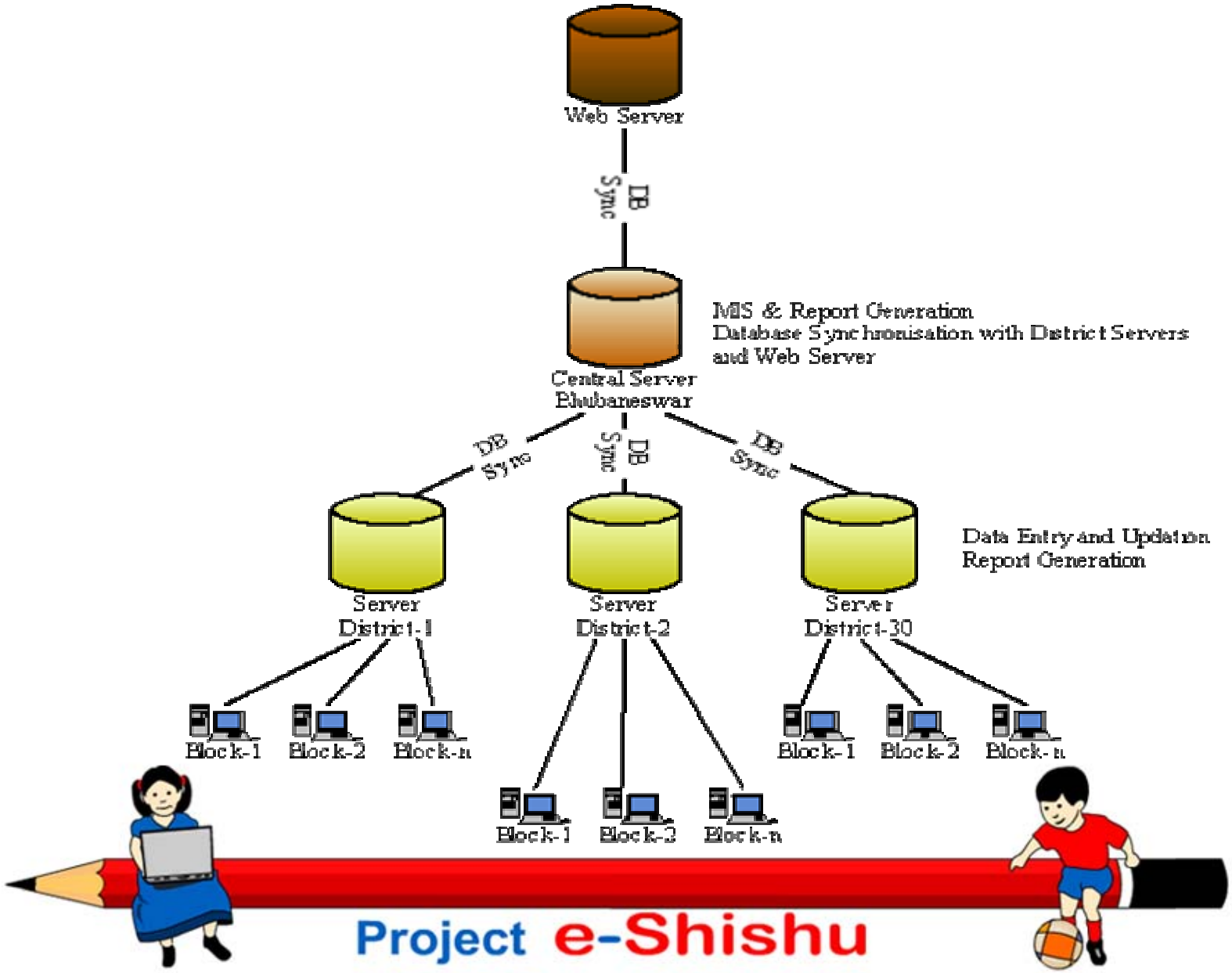

Project
e-Shishu
Snapshot
Background
Changing Strategy
Importance
Planning
References & Survey
Pre-Process Activities
Process
Implement
Best Practices
Benefits
Way Forward
Project e-Shishu

Best Practices...

- Updation of Child Data at Block Level

  – Currently, information related to Child, Household and Schools are updated at the District level. Now the Blocks can be connected to the OPEPA network and data can be updated at the block level.

  – For this the Block users can access the application through GRAMSAT.


Web Server
DB Sync
Central Server
Bhubaneswar
MIS & Report Generation
Database Synchronisation with District Servers
and Web Server
DB Sync
DB Sync
DB Sync
Server
District-1
Server
District-2
Server
District-30
Data Entry and Updation
Report Generation
Block-1
Block-2
Block-n
Block-1
Block-2
Block-n
Block-1
Block-2
Block-n
Project e-Shishu

Best Practices...

- Generation of Unique House Hold ID and Child ID:
  - Similar to EMIS code for Schools, each households have been given a unique number (9 digits). From this number one can easily track the physical location of the household. Also the type of family (like general family or houseless family) can be tracked. This number is unique in the entire state so there is no chance of duplicate HMIS code.
  - Each child in the state has been given a unique key. This unique key contains the location where the child residing also gender and other things. This unique key can be used by other agency so that a standardization will be followed and will help in getting many information from a single number. If any survey is planned to happen in future this keys can be used to get maximum information and only the required information can be surveyed.
  - Both these ID's are under process for standardization.

Project
e-Shishu
Way Forward
Snapshot
Background
Benefits
Changing Strategy
Best Practices
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Planning
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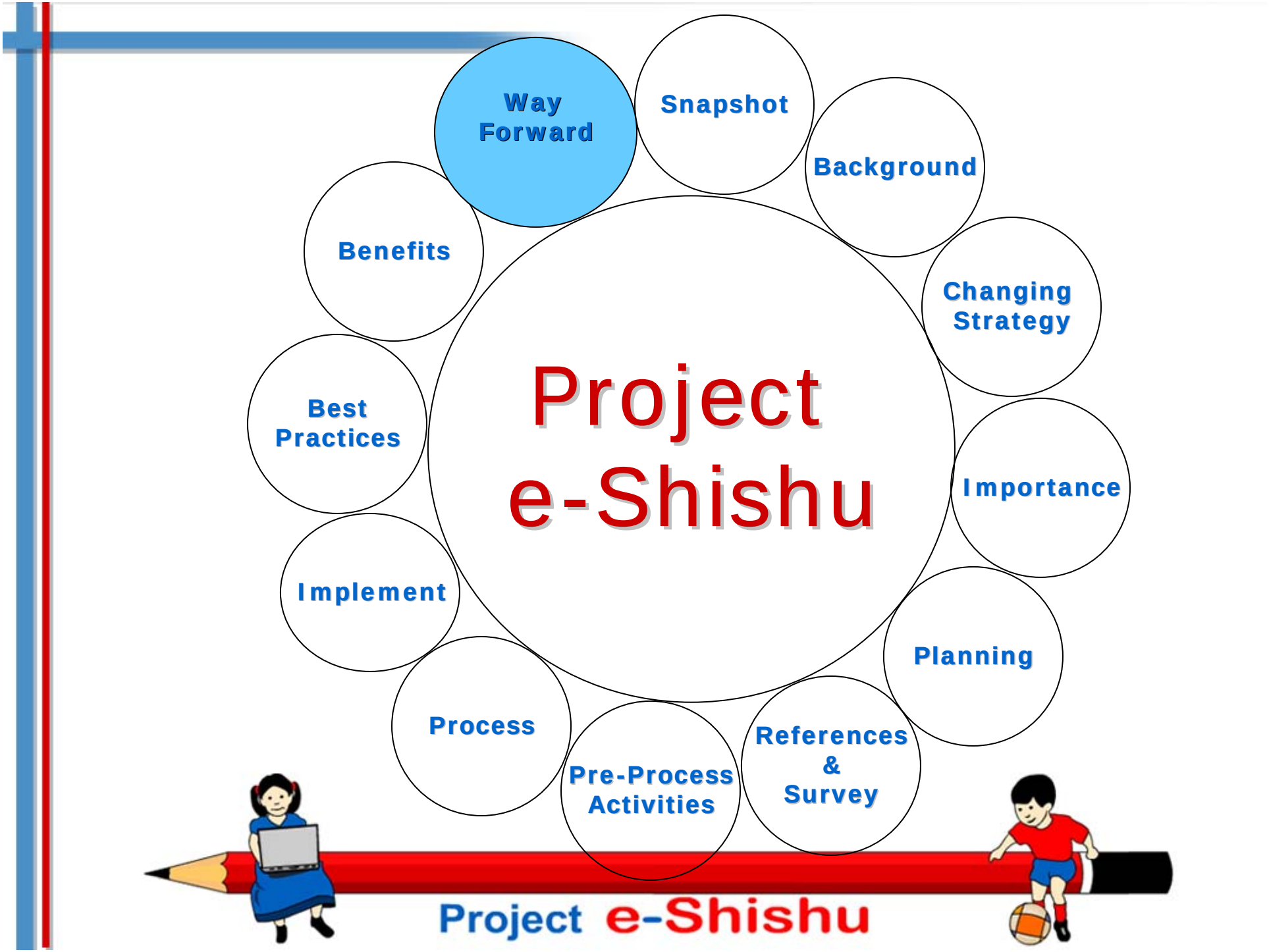
Pre-Process Activities
References & Survey
Project e-Shishu

Benefits...

- The benefit of this project would be mostly in planning activities under various interventions to achieve goals of SSA and meet the challenges of Universalization of elementary education .
- Second major benefits would be to plan specific action for the out of school children based on the reason for their being out of school. Instead of dealing with numbers ,we have names and individual to deal with.
- Third major benefits would be to plan for future entrants to the education system with infrastructure ,teachers etc. in years to come.
- Duplicate and fake enrollments which are quiet common in government schools due to several incentives like books, MDM, uniforms could be minimized/eliminated altogether
- Most important benefit would be development as a tracking system for each child based on his /her achievements and taking steps to improve the same so as to achieve the objective of quality education.
- Decision with regard to starting up of new schools or EGS (Education Guarantee Scheme) Centers or AIE (Alternative & Innovative Education) centers shall be taken at District and sub-District level based on the number of out of school children. Similarly, appropriate action shall be taken for each child out of school there by achieving goals of UEE.
- Decision with regard to providing infrastructure or posting of teacher can be taken at the appropriate level. Once such decision is implemented, the same can be updated at the local level and up linked to web.


Project
e-Shishu
Way Forward
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Implement
Best Practices
Benefits
Project e-Shishu

Way Forward...

- Integration of GIS data with existing EMIS code.
  - With this we can map each and every school up to secondary level in the state with respect to infrastructure along with latitude longitude reading with GPS survey.
  - This will help in getting information related to school infrastructure, schools available with a specific diameter, connectivity to the school etc. This will help in decision making for establishment of Primary, upper primary schools and EGS/AIE Centers.
- Integration of teachers information with the existing database.
  - Information related to existing teachers and their posting can be accessed from the website itself.
  - Decision with regard to providing infrastructure or posting of teacher can be taken at the appropriate level.

Thank you…