



Education Initiatives

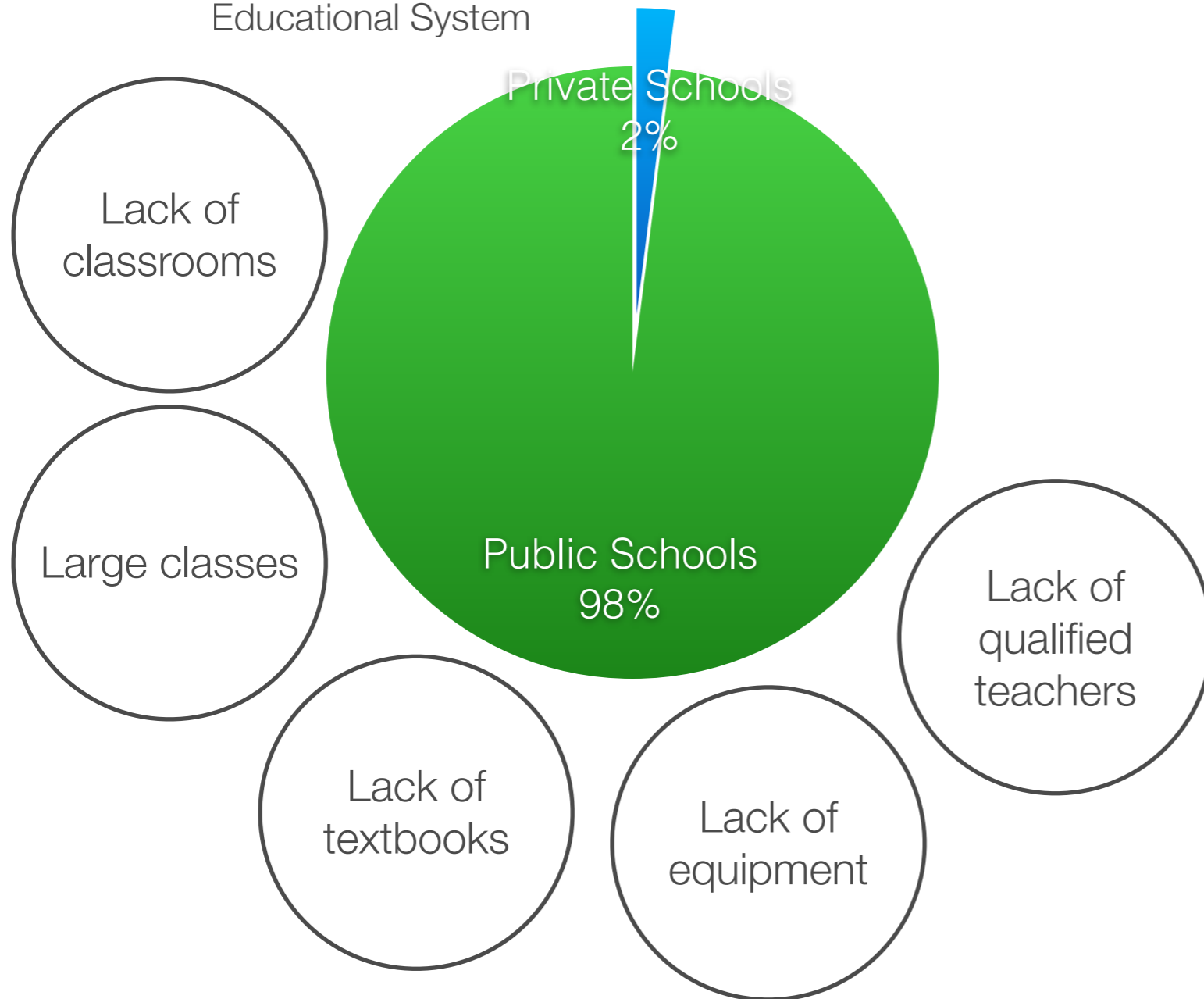


Business Model: Bottom of the Pyramid



Education for the Bottom of the Pyramid

Socio-economic
problems of the
Philippine
Educational System



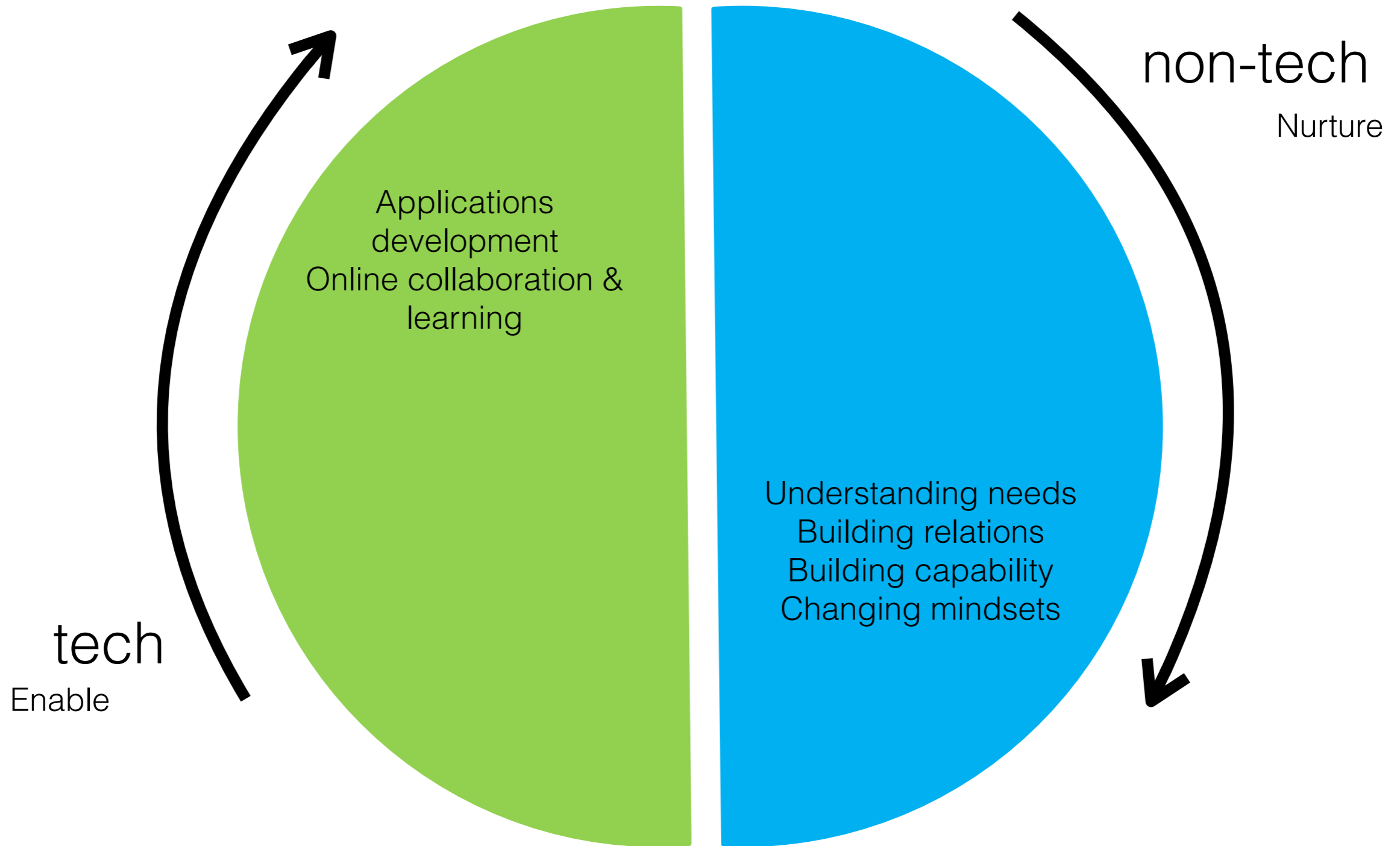
Low quality basic, collegiate
and graduate education

Human capital development



Technology is not effective

Unless you get the people side right

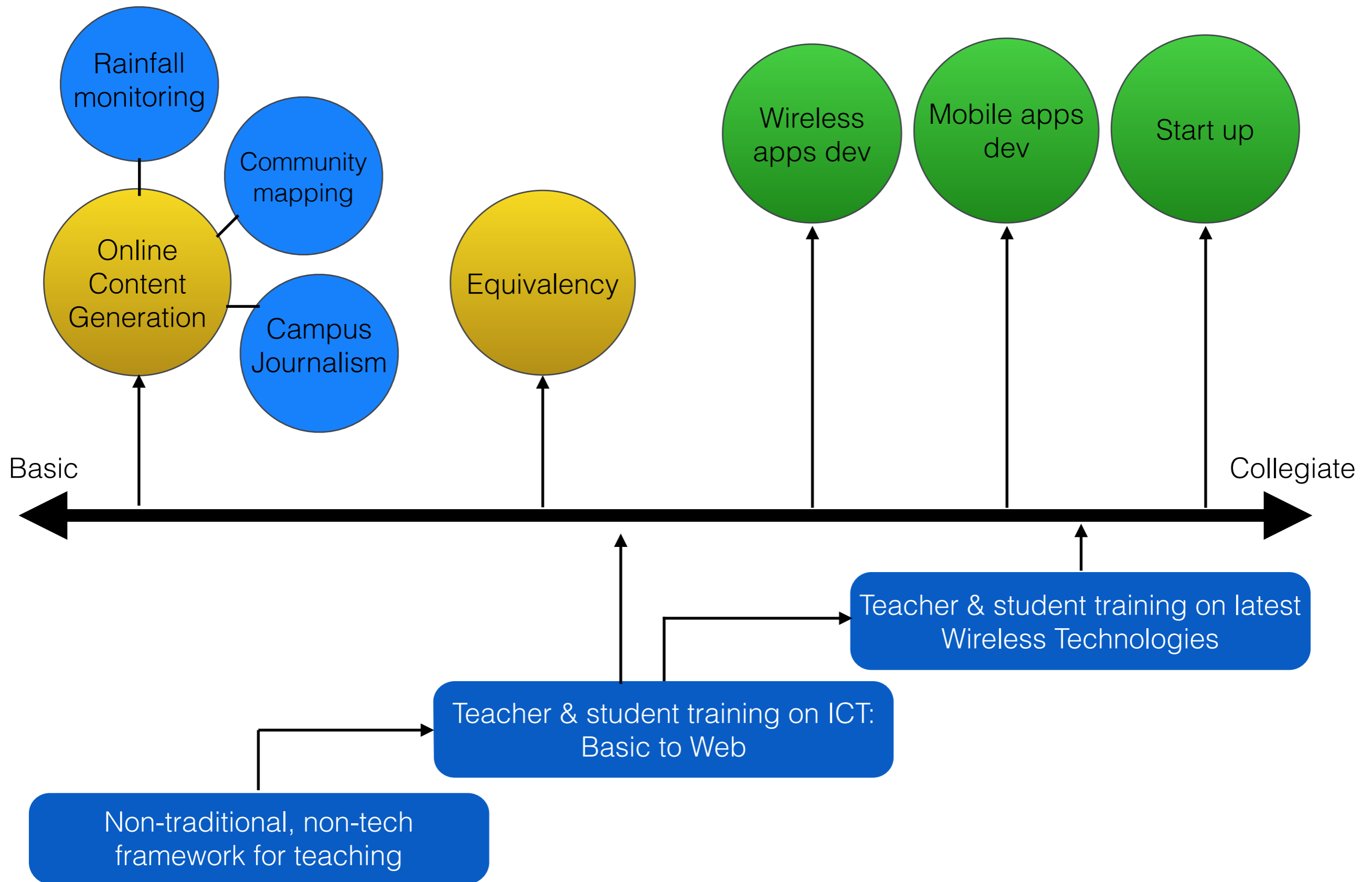


tech
Enable

non-tech
Nurture

Applications
development
Online collaboration &
learning

Understanding needs
Building relations
Building capability
Changing mindsets





case study 1

Dynamic Learning Program

About the Dynamic Learning Program

Developed by
Physicists Dr.
Christopher Bernido
and Dr. Marivic
Carpio-Bernido

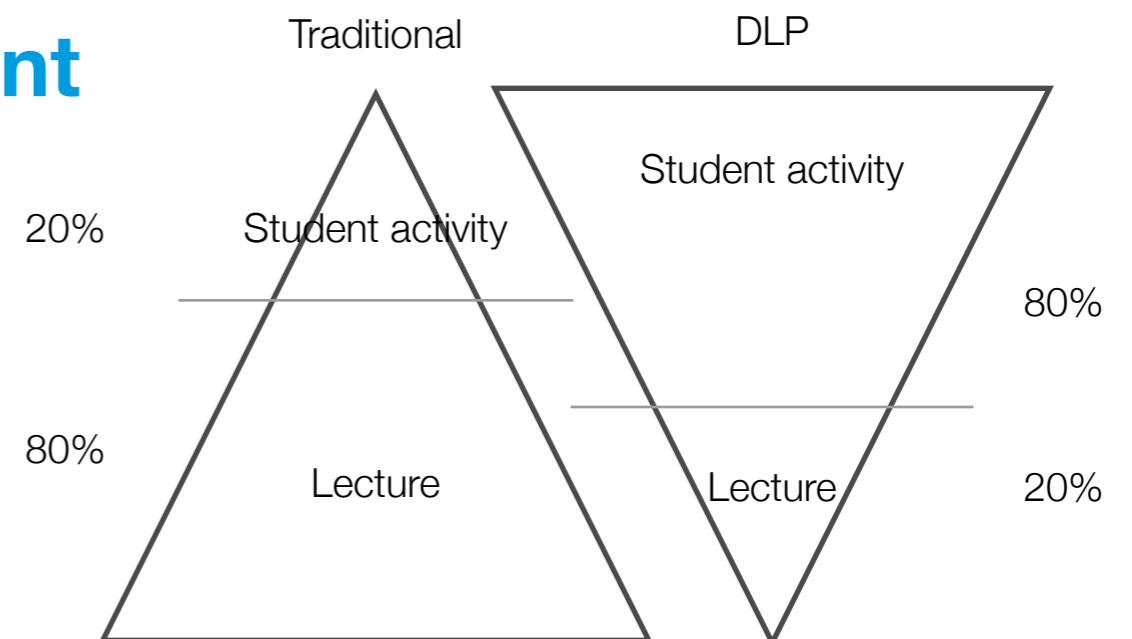
Public-private partnership:
Department of Education
Local Government Units
PLDT-Smart Foundation

**Designed to improve
student learning
despite socio-
economic constraints
common in developing
countries**

**In-school, activity-based
learning
No workbooks
No homework policy
4 academic days only**

**Systems-based
scientific approach
(neuroscience)**

**Key:
Independent
student
learning**



1 child

1 school day

4 hours

6 pages

27 questions

1 school year

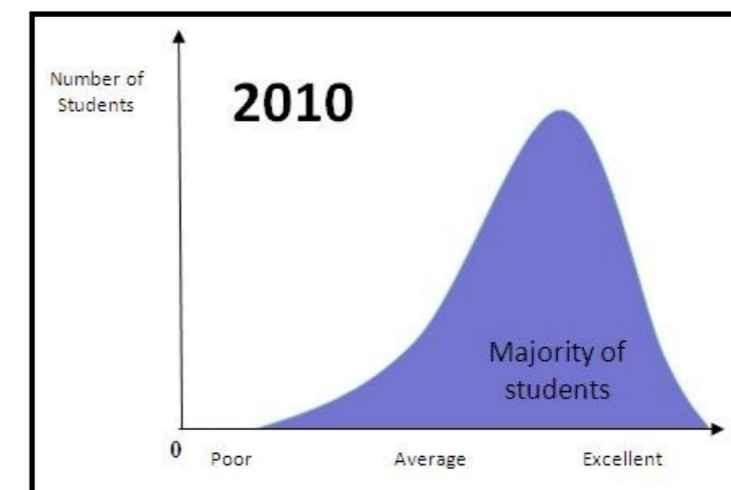
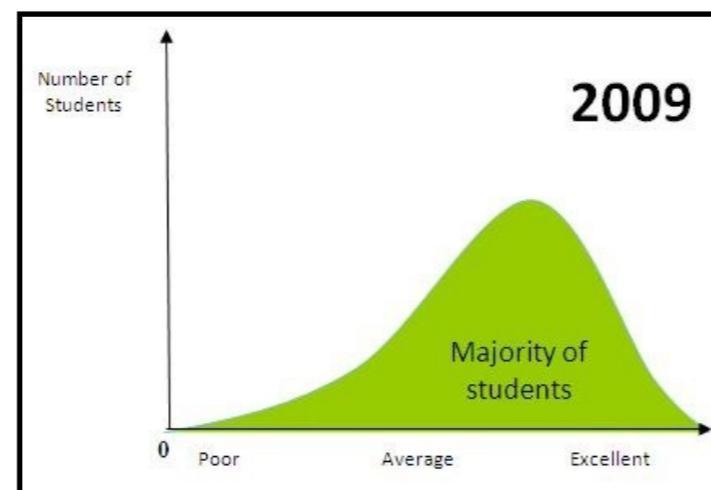
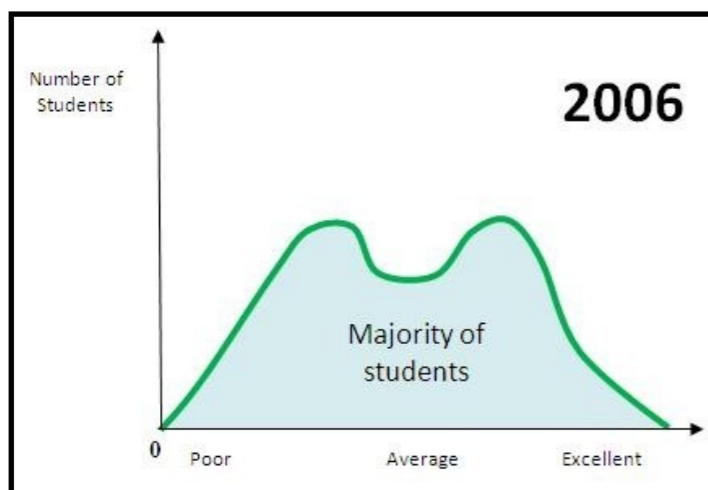
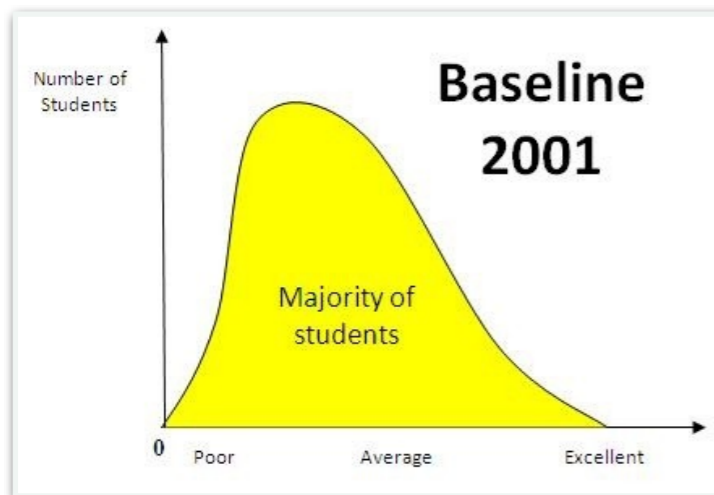
30 days

1080 pages

4860 questions

Results

- Small, missionary private secondary school
- 4th class municipality in the Visayas Island (central)
- Student population: 500; teaching force: 15
- Implementation: SY 2002-2003
- Performance scores of students in the standardized tests implemented by the Department of Education



Results

- 37 public secondary schools in the island of Mindanao (southern portion)
- 70%:urban center; 30%: hinterlands
- Lowest performing cluster of schools in the region
- Total student population: 29,000
- Implementation: SY 2011-2012



Disaster-Resistant Education

Comparison of CEM Norm Group and CDO Pretest and Posttest Best mean percent correct for all year levels for Math and Science for SY 2011-2012

	First Year			Second Year			Third Year			Fourth Year		
		Pre-test	Post-test		Pre-test	Post-test		Pre-test	Post-test		Pre-test	Post-test
	CEM Norm	CDO Best	CDO Best	CEM Norm	CDO Best	CDO Best	CEM Norm	CDO Best	CDO Best	CEM Norm	CDO Best	CDO Best
Math	48	29	37	45	32	36	50	34	46	44	34	49
Science	51	40	43	51	41	50	51	38	44	49	34	40

CEM: Center for Educational Measurement

Member schools are affluent, private schools in Manila (Philippines' capital)

CDO: Cagayan de Oro (located in Mindanao, southern portion of the Philippines)

Composed of 37 public secondary schools in urban and hinterland areas

Lowest-performing cluster of public schools in its region

SY: School Year (Cycle: June to March)

Notable:

CDO schools' first year of program implementation

CDO ravaged by Typhoon 'Sendong' in December 2011

SY 2012-2013

Area	# Public secondary schools	Student Population
Luzon (North)	52	29,653
Visayas (Central)	127	62,823
Mindanao (South)	25	10,900
	204	103,376

eLearning modules accessible through web, tablets & mobile phones

Delivery of teacher interventions via satellite technology

Tablets and customized apps for private secondary schools



case study 2

Smart Schools Program

About the Smart Schools Program

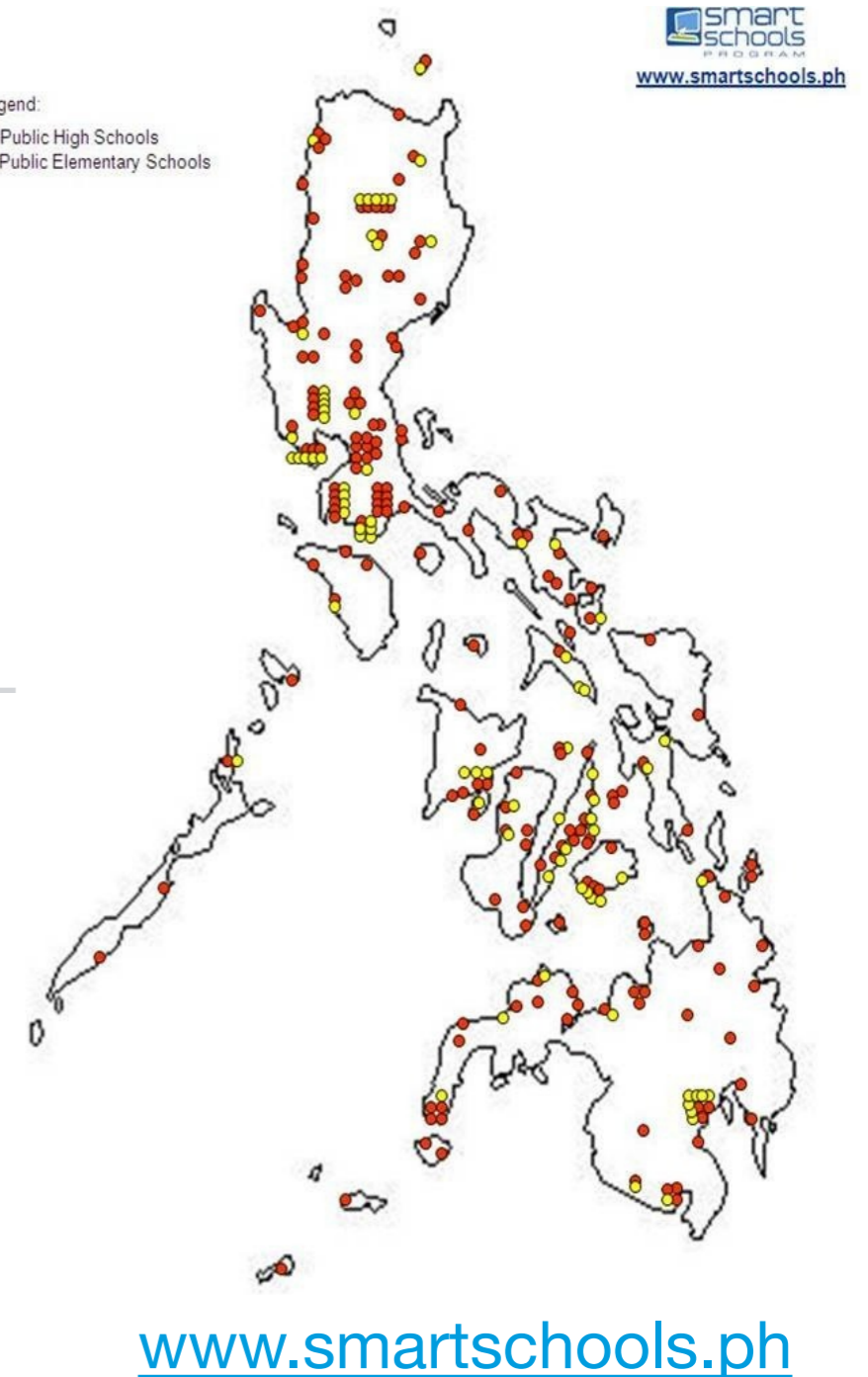
Aims to expand learning opportunities for public school students thru ICT

Provision of wireless connectivity, access to online content & teacher training on ICT

Public-private partnership:
Department of Education
Local Government Units
PLDT-Smart Foundation
Corporate sponsors

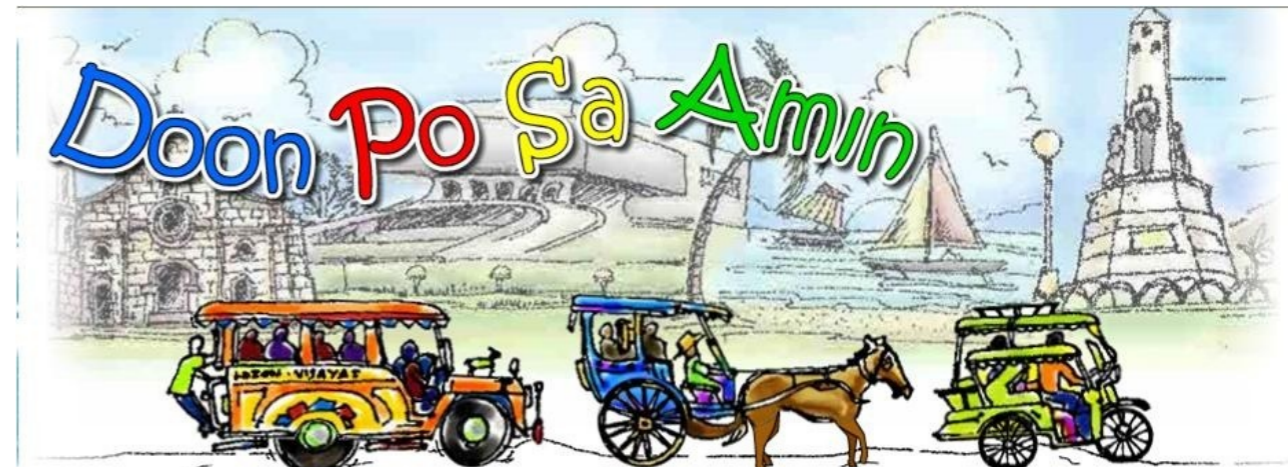
330 public primary & secondary schools in the network all over the country

Phase 1: capacity building
Phase 2: online content generation
Phase 3: equivalency



Online Content Generation: Community Mapping

- '*Doon Po Sa Amin*' translated as '*In Our Place*'
- Aims to generate and share web-based, hyper-local content thru ICT
- Phase 1:
 - Public secondary: micro sites
 - Public primary: blog sites
 - 467 micro sites and blog sites developed by students
 - www.doonposaamin.ph
- Phase 2:
 - Crowd-sourcing
 - Google maps
 - Web and mobile reporting



Public primary school video blog



doon po sa amin..

kapit-kapatid

helping hands in the midst of calamity

Introduction

Sitio Batac a place in Barangay Tandang Kutyo Tanay, Rizal where simple residents live. Although this place is not a convenient place to live in, the people here were happy and contented with their lives until Bagyong Ondoy hit the town of Tanay specifically Sitio Batac, Barangay Tandang Kutyo. The houses of the residents of Sitio Batac were washed out by the flood. Many have lost their lives. It was really a devastating moment in the lives of these people in this place.



This video talks about the exact relocation site which is now known as Sitio Gabihan. You can also see in this video the houses which materials were donated by Plan Philippines Inc. and the Daycare Center also donated by the said organization.

Sitio Gabihan is not the perfect place to stay but for the victims of Ondoy it is the safest place to be, away from the anxiety of losing their belongings and loved ones in case of a typhoon like Ondoy hits the town of Tanay again.

In this trying times, People with big hearts really extended their help and brought light to the lives of the affected residents. They provided them with dry clothes to wear, food to feed their hungry stomach. The municipal government in coordination with barangay Tandang Kutyo provided a relocation site for those families who lost their houses. This relocation site is located in Sitio Gabihan Barangay Tandang Kutyo.



This study will focus on the present condition of the people living in Sitio Gabihan.

Menu

- » Introduction
- » Main Story
- » Methodology
- » Photo Gallery
- » Purpose of the Study
- » Team Members
- » Video Gallery
- » Credits and Resources
- » Conclusion and Recommendation

Credits

This blog would like to thank Honorable Antonio Pitoral for helping and guiding the group towards research in the Barangay especially in Sitio Gabihan. Thank you!

Like IES on Facebook



Ilaya Elementary School - Tanay, Rizal on Facebook

Like



Ilaya Elementary School - Tar

the album Pangkulturang Pagtat



162 people like **Ilaya Elementary School - Tanay, Rizal**.



Sebastian f. hermosa Paula Joyce

DOON PO SA AMIN: MAY KALAN SA DAAN

Tricycle in LPG Mode; Sooting the Road Green



- HOME
- PROJECT DESCRIPTION
- METHODOLOGY
- TEAM PROFILE
- COMMUNITY PROFILE
- FOCUS STUDY
- HOW IT STARTED
- IMPLEMENTATION
- PUBLIC HEARINGS FOR CLEAN AIR ACT
- ADVANTAGES
- PROBLEMS ENCOUNTERED
- CONCLUSION
- RECOMMENDATION
- BIBLIOGRAPHY
- GALLERY

Introduction



The city of Balanga, also known as the *"Tricycle City"* was made capital of Bataan for its favorable location. Its location made it the best media as the province's center of trade, commerce, services, and education. The city boasts of its 80.42 hectares of educational facilities making the central district a university town area by City Ordinance No. 21, S. 2008.

The city is located at the eastern part of Bataan and South Western part of Central Luzon. Bounded by Abucay on the north; the mountains of Bagac and Morong on the west; and separated by the Talisay River, that starts from the mountains of Mariveles and meanders from the southwest to the northeast.

Not only that Balanga upholds Education, it is also a city that fights Global Warming as shown in their development of LPG-run tricycle. As of now only a few drivers convert to this environment-friendly technology, but the number is expected to bloom in the near future. With this in mind, many could wonder why the city is called the "Tricycle City" and not the "Healthy Tricycle City".



Public secondary school micro site

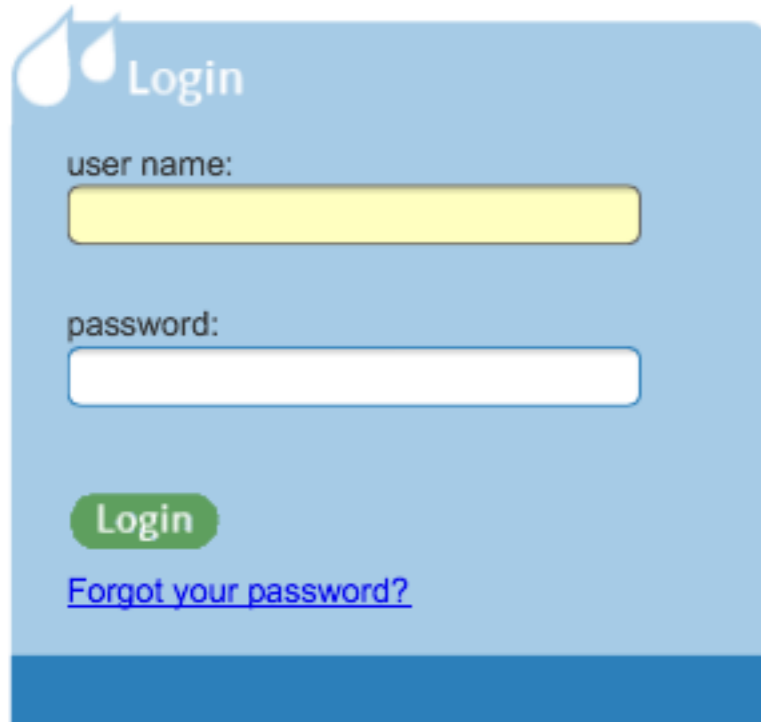
Online Content Generation: Rainfall Monitoring



Project Rain Gauge

- Science education
- Technology-assisted, community-based rainfall monitoring exercise
- 87 public schools in hazard-prone areas
- Online data repository: www.projectraingauge.ph
- Web and mobile reporting
- Partners:
 - Department of Education
 - PAGASA: Philippine weather authority
 - AGHAM: Advocates of S&T in the country

Please log in to report rainfall data



Login

user name:

password:

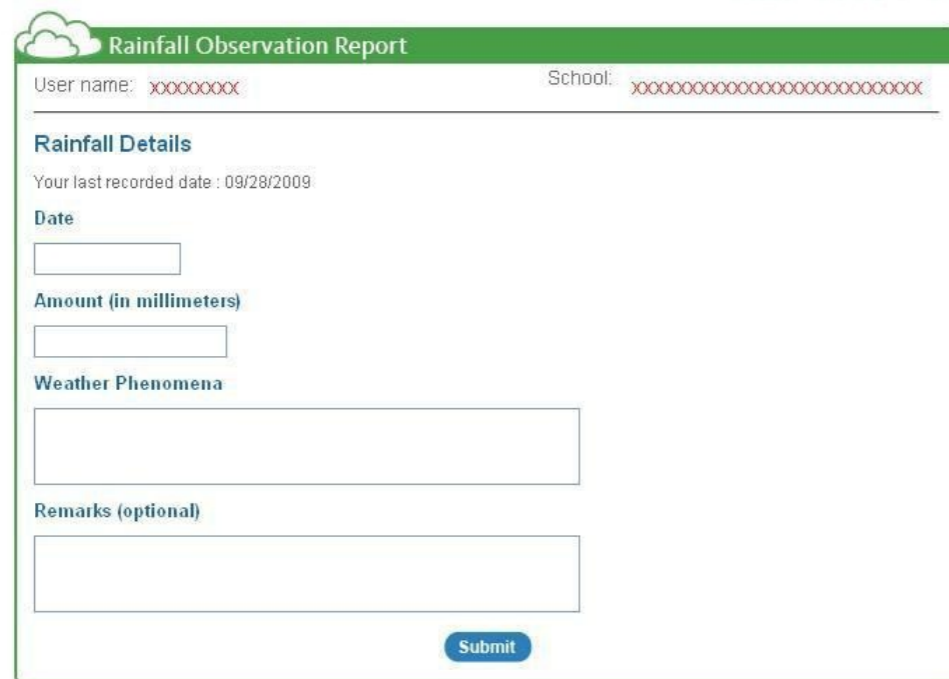
Login

[Forgot your password?](#)



PRG Reporting via Web

REPORT FORM



Rainfall Observation Report

User name: xxxxxxxx School: xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

Rainfall Details
 Your last recorded date : 09/28/2009

Date

Amount (in millimeters)

Weather Phenomena

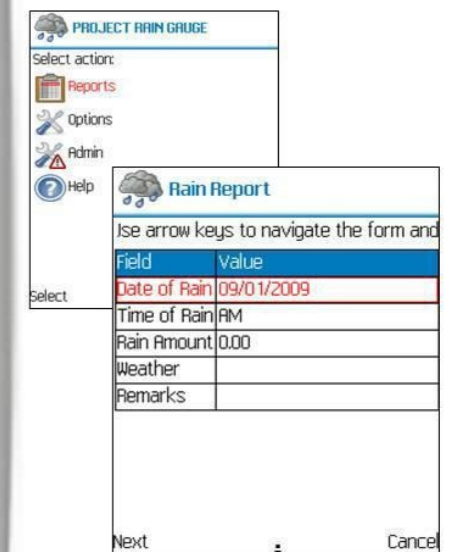
Remarks (optional)

Submit



Reporting data

REPORT FORM

PROJECT RAIN GAUGE

Select actions:
 Reports
 Options
 Admin
 Help

Rain Report

Use arrow keys to navigate the form and

Field	Value
Date of Rain	09/01/2009
Time of Rain	AM
Rain Amount	0.00
Weather	
Remarks	

Select

Next Cancel

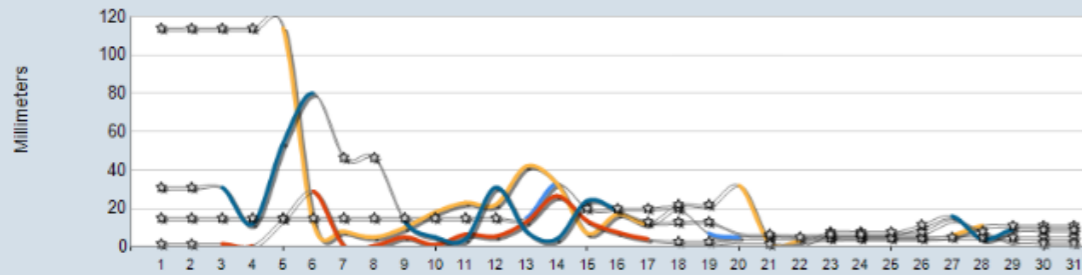
Daily Rainfall

Region : School : Month : Year :

Region	Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
REGION II - Cagayan Valley	mm													15.00	33.00					7.00	5.00											
REGION V - Bicol Region	mm					114.00	12.00	8.00	5.00	10.00	18.00	23.00	22.00	42.00	33.00	7.00	17.00	12.00			32.00	2.00	3.00								6.00	11.00
REGION VII - Central Visayas	mm			1.50	0.50		29.00	0.50	0.50	5.00	1.00	6.50	5.50	13.00	28.50	13.50	7.50	4.00			1.50		1.50								14.00	
REGION XI - Davao Region	mm			31.00	12.00	54.00	80.00			13.00	5.00	4.00	31.00	8.00	4.00	24.00	19.00			7.00		6.00			7.00					16.00	4.00	

Daily Rainfall

REGION II - Cagayan Valley
 REGION VII - Central Visayas
 REGION XI - Davao Region
 REGION V - Bicol Region



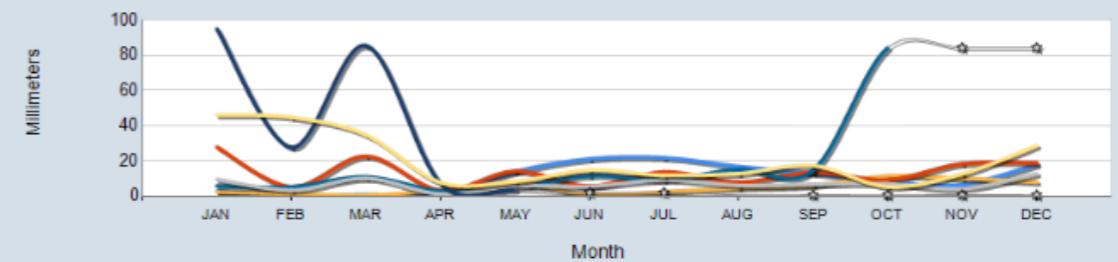
Average Monthly Rainfall

Region : School : Year :

Region	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
NCR	2.76	0.10	0.86	0.86	13.87	21.06	21.74	16.71	12.93	8.03	6.59	17.92
REGION II - Cagayan Valley	2.42	1.21	0.53	3.23	7.74	0.73	2.45	4.58	6.05	11.47	10.10	7.91
REGION V - Bicol Region	27.72	5.18	22.55	3.23	14.13	5.67	13.68	7.87	13.57	9.19	18.33	18.83
REGION VI - Western Visayas	5.62	5.23	10.84	2.93	4.81	11.60	9.35	15.13	14.88	84.00		
REGION VII - Central Visayas	9.44	3.27	10.00	1.11	5.65	5.41	9.15	6.00	6.63	6.93	4.07	12.57
REGION VIII - Eastern Visayas	94.61	27.55	85.25	7.20	3.33			0.50				
REGION XI - Davao Region	46.06	44.67	34.66	7.60	8.23	14.71	11.65	12.68	17.27	5.23	12.55	28.55

Average Monthly Rainfall

NCR
 REGION VI - Western Visayas
 REGION VIII - Eastern Visayas
 REGION II - Cagayan Valley
 REGION VII - Central Visayas
 REGION XI - Davao Region
 REGION V - Bicol Region



Online Content Generation: Online Campus Journalism

JOURN.PH
Bringing Campus Journalism Online

HOME ABOUT US CAMPUS PUBLICATIONS FROM THE PROS ARCHIVES

Journ.ph is an Online Hub of Campus Publications in the Philippines

JOURN.PH
POWERED BY
SMART

HOME • NEWS • OPINION • EDUC • SPORTS • PHOTOS • HIYAS • GLOBALEAD • LEADS • CIVICS • FEAT&ENT

Headlines

A Night's Awareness To Remember
April 4, 2012 at 7:37 am
By USLS Communications Department-CAS

Junior Editors of The LEAD campaigned in their neighbourhood for people to join Earth Hour by distributing leaflets and campaigning house-to-house to convince people to switch their lights off for an hour to promote Nature conservation. The result was inspiring.
[Share on Facebook](#)

[read more](#)

Recent Stories

Doing Our Role as Stewards
March 31, 2012 at 9:27 am
By USLS Communications Department-CAS

We join the hundreds of millions of people who celebrate tonight Earth Hour to help make more people appreciate the gifts of Nature and more aware that as stewards of God's creations, they have the responsibility to help and protect them, much more so now when we face greater risks.
[Share on Facebook](#)

[read more](#)

Bits to Beat Summer Heat
March 29, 2012 at 12:12 am
By USLS Communications Department-CAS

Welcome summer! Everything becomes hot and sizzling and college students are now getting more thrilled and blissful. As days go by, we unconsciously feel that the heat competes with us. These are the tips on how to avoid summer disappointments as we jump in to Summer 2012.
[Share on Facebook](#)

[read more](#)

'Patik-patik' sa Punta Taytay
March 29, 2012 at 12:04 am

EDITORIAL BOARD

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	NELSON ADRIAN REMO managing editor
	KENNETH EMIL JAUM news editor
	JETHER BUDD TOLENTINO opinion editor
	JENSEN ARTIFICE features editor

- Aims to spur campus journalism thru technology
- Online platform: journ.ph
- 30 campus blogs created

Pipeline: mEquivalency

- **Alternative Learning System Program**
- **By the Department of Education**
- **Offers accreditation and equivalency for elementary and secondary levels**
- **Target: Out of School Youth, those who cannot afford formal schooling, adult elementary and secondary school drop-outs, industry-based workers, members of cultural minorities, indigenous people and physically challenged individuals**
- **Business model: SMS/MMS-based modules that can be accessed at the individual's own time, pace and capacity to pay (sachet-type)**





case study 3

Smart Wireless Engineering Education Program
SWEEP

About SWEEP

Aims to bridge industry-academe gap in the fields of Engineering & IT

52 tertiary schools in the network all over the country

Provision of a wireless lab, tech scholarships, internship, access to Smart Developer Network & training on wireless technologies

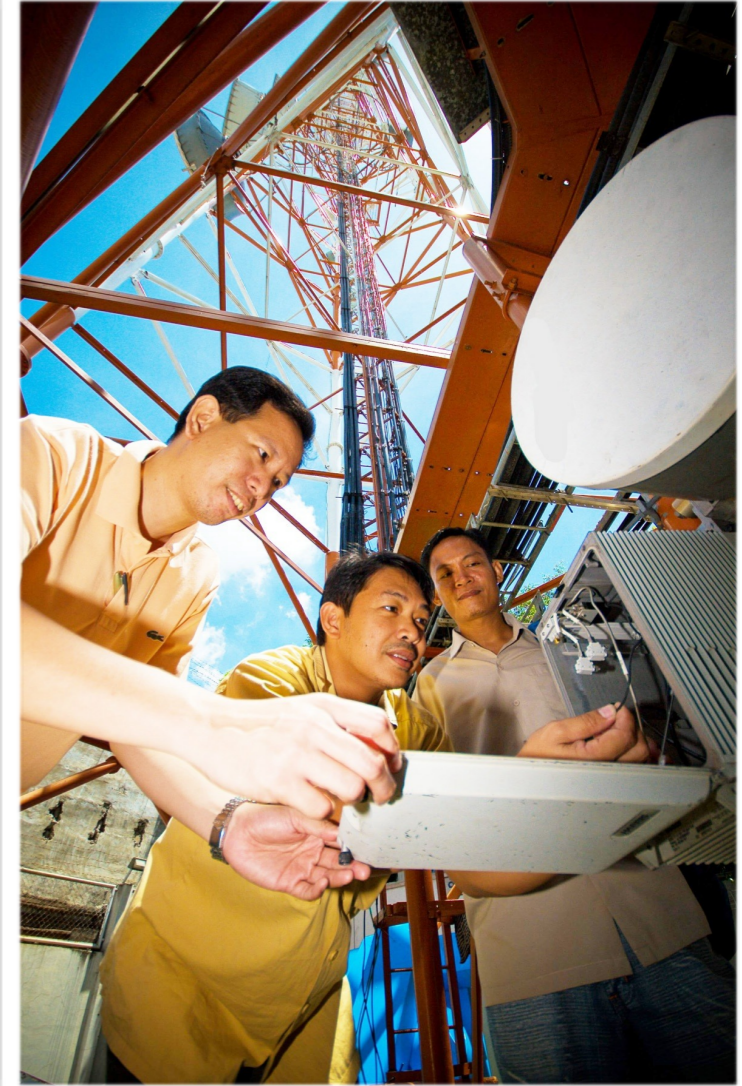
Industry-academe partnership

Phase 1: capacity building

Phase 2: wireless applications development

Phase 3: mobile applications development to run on Android platform

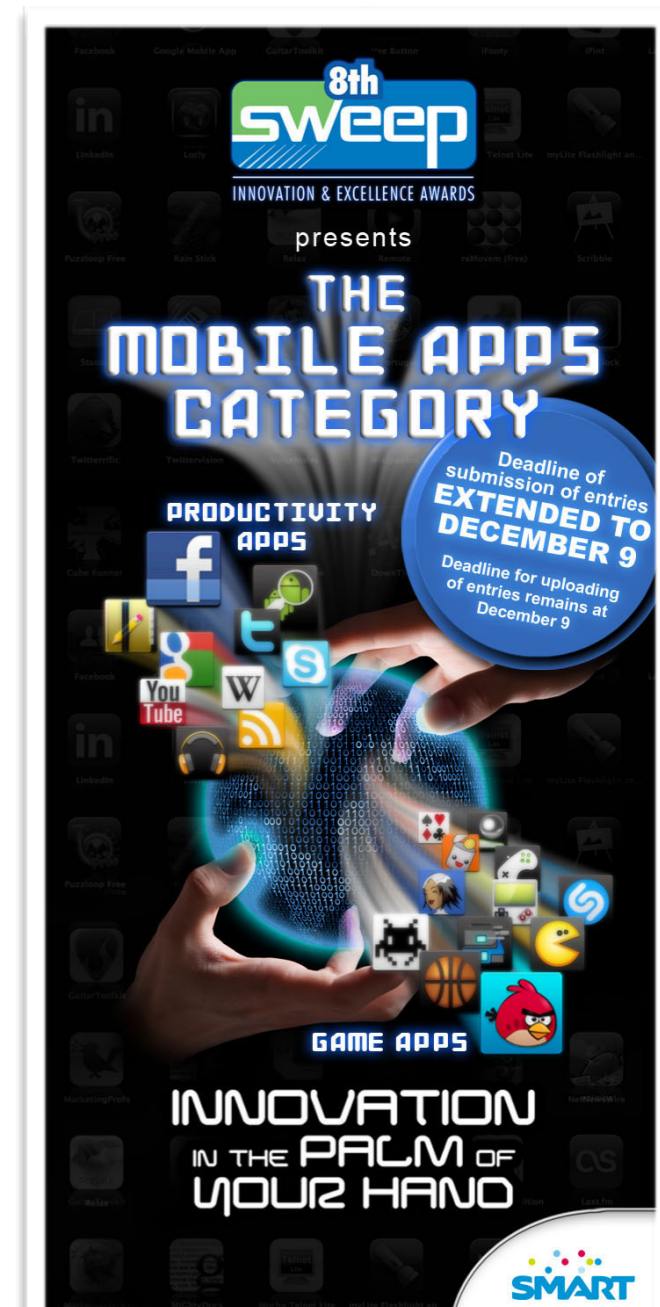
Phase 4: technopreneurship



www.smartsweep.ph

SWEEP Innovation & Excellence Awards

- Schools compete by developing:
 - community-based, wireless applications or solutions
 - mobile applications that run on the Android platform, ranging from entertainment to social networking apps to productivity and privacy tools
- Uses Smart's platform of products and services
- 70 prototypes of wireless solutions developed to date



Wireless Applications Category winners



First Prize

Wearable Obstacle Detection System and Braille Cell Phone for the Blind

- Mapua Institute of Technology
- The device aims to better empower the blind since it not only aids in receiving and sending messages on the cell phone, but also provides ease in mobility.

Second Prize

Smart E-mobilized

- Notre Dame of Marbel University
- Proposes the use of QR Codes on mobile phones that can be swiped in scanners set up at MRT and LRT stations to help minimize the time and effort commuters spend in buying tickets.

Third Prize

Aquamarine Solution to Salinity and Oxygen Using Wireless Technology

- Bataan Peninsula State University
- Designed to help prevent incidents of fish mortality, by using sensors installed in the body of water to remotely measure & regulate the salinity and dissolved oxygen level in fishponds.

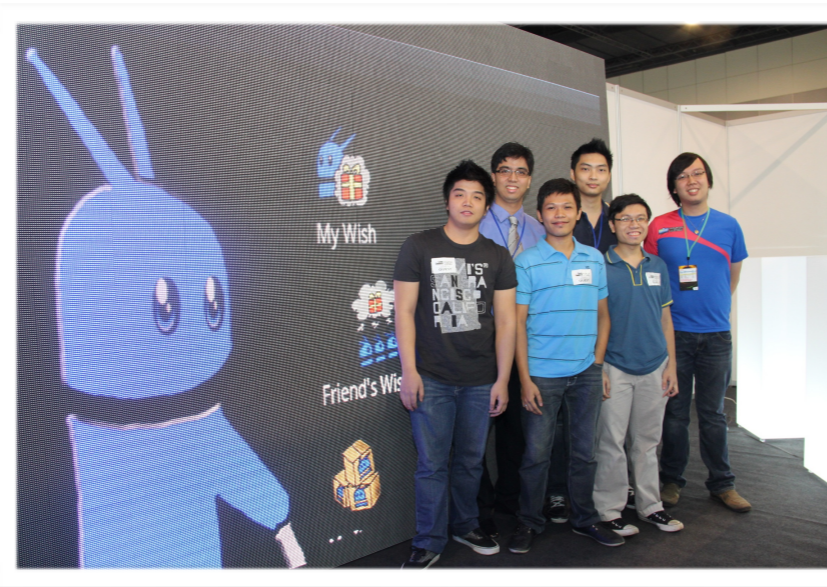
Mobile Applications Category winners



1st Place:

Palay Quality Checker through Leaf Coloration by Image Analysis
(Bataan Peninsula State University)

App designed to assess palay quality by conducting a series of leaf color examination through a mobile application using android technology



2nd Place:

Smart SHOPerone
(Ateneo de Manila University)

App that serves as a shopping companion/suite. Designed to plan expenditures on products & allows for solicitation of funds from friends connected to a social network.



3rd Place:

Taxi Ko
(Ateneo de Naga University)

App that measures taxi fares using GPS and accelerometer.

IdeaSpace: Technopreneurship

- An incubator and accelerator Program
- To support technology entrepreneurs in the Philippines
- Includes:
 - Seed funding
 - Mentorship
 - Resources
 - Support

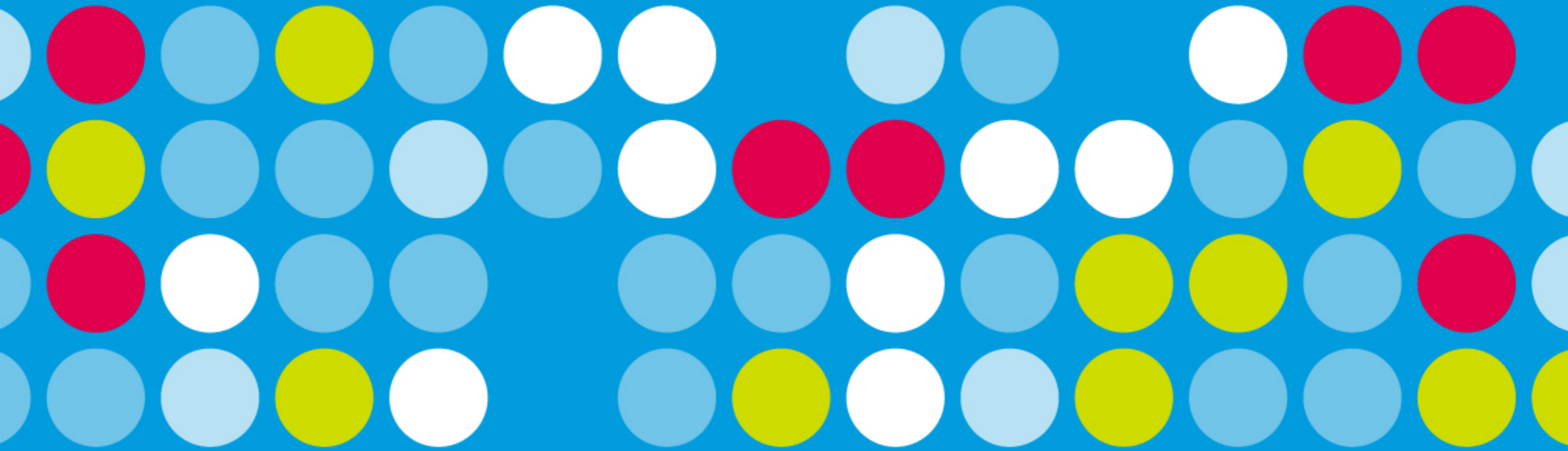
ideaSPACE

1 step back

2 steps forward

Technological innovations will only work and be sustainable if we develop a solid foundation that is ready and primed to accept it

- **People side:**
 - **Building relationships**
 - **Changing mindsets**
 - **Building capacity**
 - **Providing support**
- **Guiding principles:**
 - **Coalition of the willing**
 - **Learning by doing**



Thank you