INTEGRATING TRANSVERSAL COMPETENCIES IN EDUCATION POLICY AND PRACTICE (PHASE III)

Country Case Study: JAPAN

S. Yume Yamaguchi, Naoko Asano Enomoto, Yukiko Yamamoto, Akina Ueno

Tokyo Institute of Technology

Global Scientific Information and Computing Center

ERI-net annual meeting: 22-24 February, 2016 Tokyo, Japan



Outline

- 1. Background
- 2. Research Design
- **3.** Policies and Practices for Professional Development of Teachers: Case of Akita
- 4. Professional Development Practice at School Level
- 5. Teachers' Perception on Professional Development in Akita
- 6. Education for Increasingly Globalized World
- 7. Achievements and Challenges





- Background: Findings from Previous Study
 1.1. Phase I (Reviewed "the 2008 New Courses of Study")
 - 1. Principle of "Zest for Living"
 - Verbal activities across all academic subjects
 - Fostering abilities to "think, express and make decisions
 - 2. Promotion of Transversal Competencies in the 2008 Courses of Study
 - Emphasis on ability to think, ability for reasoned decisionmaking and ability to express oneself, especially though verbal activities
 - Establishing partnership with local community for more experience-based learning

Zest for Living

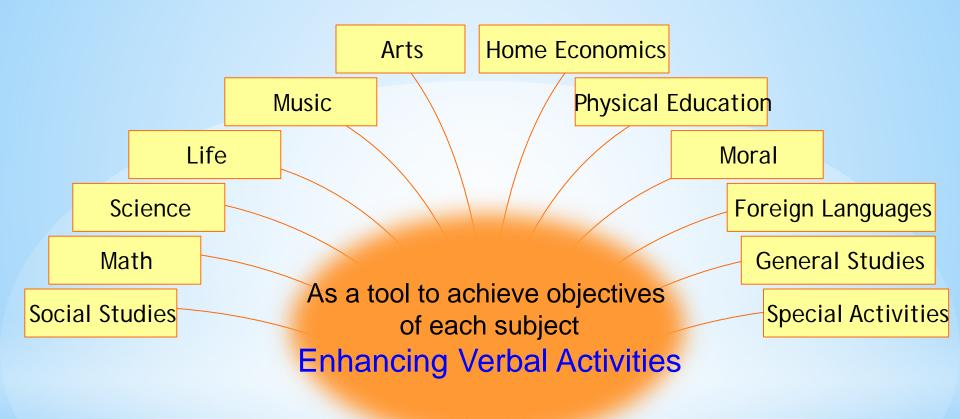
Solid academic Prowess

Basic Knowledge Learn & think themselves Need for coping with rapidly changing environments in knowledge-based society

Enhancement of verbal activities in the 2008 New Course of Study



Enhancement of verbal activities (1)



Japanese

Ensuring basic ability of Japanese language as well as experiencing beauty of the language. Nurturing abilities to utilise language such as record, summary, explanation, dissertation and debate according to students' stage of development

Enhancement of verbal activities (2)

Japanese

Express experiences and learn how to persuade others



Science

More experiments related to daily activities and present in groups



corroctly

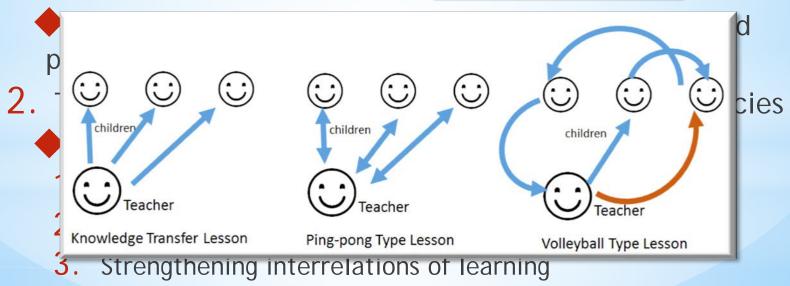
Social Science Use current affairs, and discuss with reasons



General Studies Inviting community worker for discussion



- Background: Findings from Previous Study
 1.2. Phase II (Policies and Practice in Akita)
 - 1. Prefectural and School policies on transversal competencies
 - MEXTtransversal competencies promoting policies are well reflected in local policies
 - Interactive teaching method <u>"Volleyball lesson"</u>



Background: Findings from Previous Study
 Phase II (Policies and Practice in Akita)

Standardized lesson planning

1. Three components of Lesson: Goal, Development, and Reflection



3. Notebook utilization









4. Innovative teaching Materials/Using ICT for Enhancing Quality of Learning

2. Blackboard utilization





Background: Findings from Previous Study
 Phase II (Policies and Practice in Akita)

Incorporating divers verbal activities



Background: Findings from Previous Study
 Phase II (Policies and Practice in Akita)

Strengthening interrelations of learning



2. Research Design (Phase III)

Research Questions

- How are teachers in Japan, prepared for their teaching skills, including facilitating transversal competencies learning?
- How are teachers perceiving the impact of globalization in their educational practices at school level?

Data Collections

- Policy document analysis
- School observations
- Interviews
- Questionnaire survey

Akita Prefecture

 450km North of Tokyo, 11,363.30km², Pollution; 1,023,151 Education budget:18.5%

 Top ranking in the National Achievement Examination since 2007

o Akita Yuzawa City, Higashi Naruse Village

1) National, Local and School Policies

- 2) Teacher training Practice
- 3) Teachers' perceptions



11

3.1. Findings: Professional Development Policies in National Level

1. Responsibility and obligation; The Special Regulations Concerning Educational Personnel (1949)

Article 21: Must continuously devote themselves to research and pursue self-development Article 22: Teacher training by appointed authorities is compulsory Article 23: "beginning teachers' training" — administrators have a responsibility to train newly hired teachers for one year. Article 24: "10 years training"-administrators have a responsibility to conduct training to the teachers who completed their 10 years of teaching Article 25: Teacher training must be planned & implemented systematically, reflecting teachers' experience 2. National level teacher training

- Training for core teachers
- Training for teacher trainers
 - Mandatory teacher trainings

3.2. Findings: Professional Development Policies in Local Level 3.2.1. Akita Prefecture Policies

Four basic competencies (Akita University, School of education)

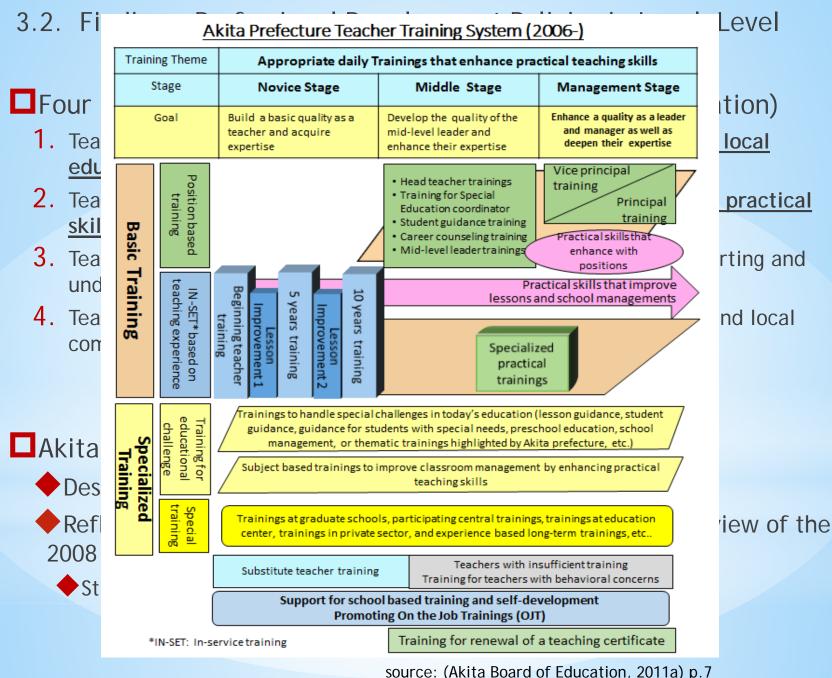
- 1. Teachers who have <u>sense of responsibility to develop and support</u> <u>local education</u>,
- 2. Teachers who understand the principle of <u>pedagogy and have basic</u> <u>practical skills</u> for teaching,
- 3. Teachers who contribute to create healthy environments by supporting and understanding children,
- 4. Teachers who <u>build good relationships</u> between children, parents and local communities

Akita Prefecture Teacher Training System (1958-)

Designed based on individual professional stage

Reflecting the 2006 amended education laws, including " review of the 2008 New Courses of Study"





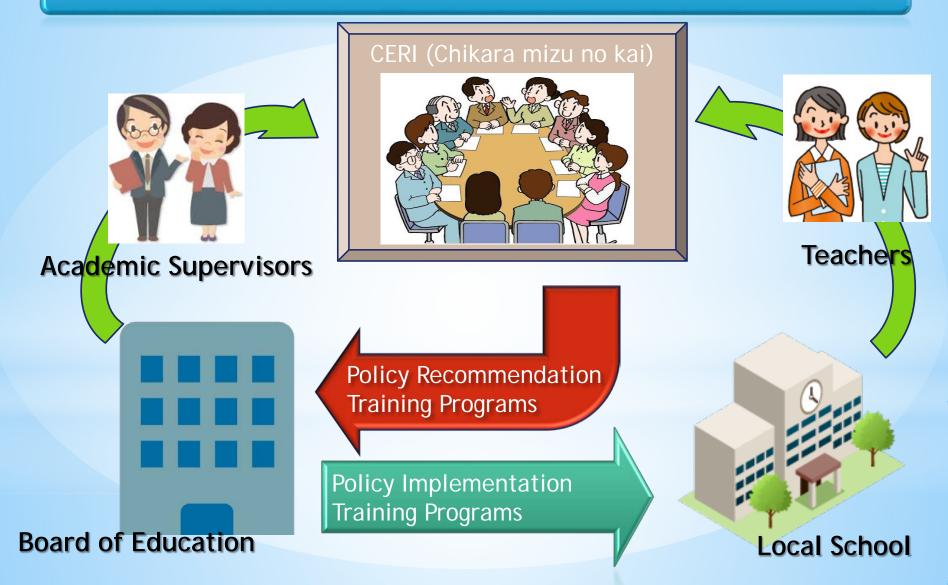
3.2. Findings: Professional Development Policies in Local Level ¹⁵ 3.2.2. Municipality Policies

□ Yuzawa City

Six strategies to Improve teacher's quality and competency

3.2. Findings: Professional Development Policies in Local Level 3.2.2. Municipality Policies (2)

Committee of Education Research Institute (CERI), Chikara-mizu no Kai



3.2. Findings: Professional Development Policies in Local Level 3.2.2. Municipality Policies

Yuzawa City

Six strategies to Improve teacher's quality and competency

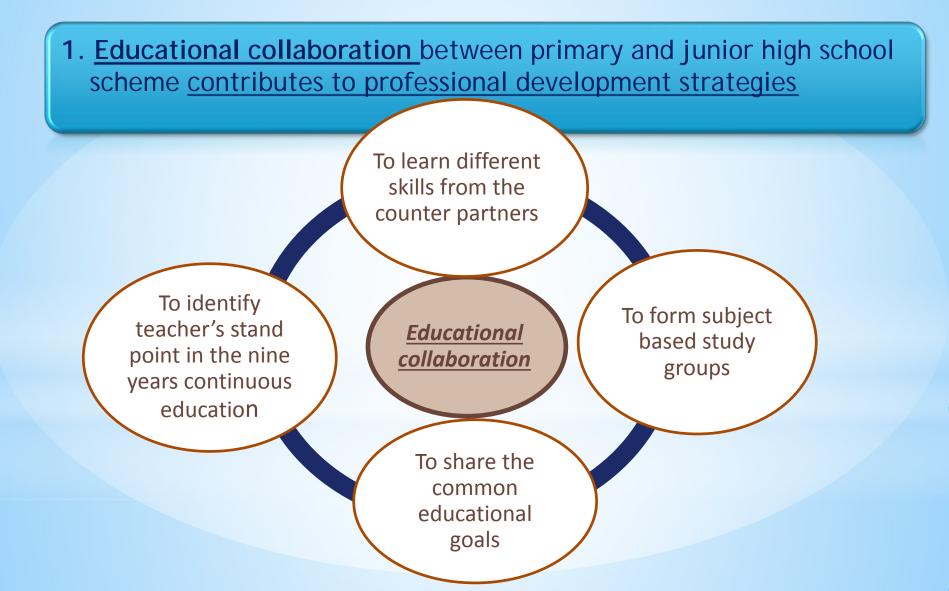
Higashi Naruse Village

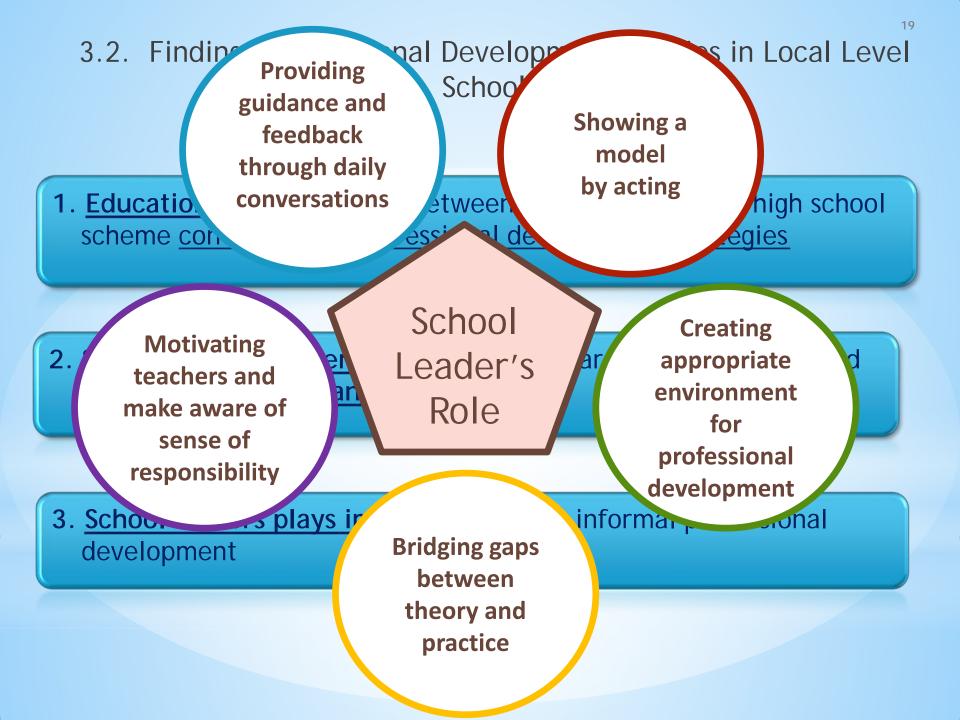
Collaborative Education between Primary and Junior high school

Common Characteristics

- 1. <u>Educational collaborations</u> between primary and junior school
- 2. Emphasis on the school-based teacher training
- 3. <u>Strong school leadership</u> for effective professional development
- 4. <u>Good relationship</u> between the board of education and local schools

3.2. Findings: Professional Development Policies in Local Level 3.2.2. School policies





4. Findings: Professional Development in Practice4.4. School : Professional Development Practice at School Level

Summary of Open Lessons and Consultative Meetings Observed

Yuzawa Higashi Primary School (2015/06/26)								
Subject	Grade	No. of Students	Торіс	No. of participants				
Math	6	29	Division of Fraction	13				
Japanese	2	30	Writing a book report	15				
Summary meeting	_		_	27				
Yuzawa Kita Junior High School (2015/06/25)								
Physics	3	27	Work and Energy	13				
Home Economics	2	26	Local food for daily diet	15				

Process of Lesson Study of School Based Teacher Training

------ 研究主題

(1) Lesson Goals.

 Understand the reason why Swimmy regained energy and write a book report about it. ...

Stage	Time.	Learning Activities	Style	Teacher's support and evaluation / how to learn	考える力を育てる「学び方」の指導 ~ # 宮宮頃の5 城と主体約な年びを目用して~
understand.a a a a a a a a a	7 min a a a a a a a a a a a a	1. listen what classmates wrote in their letter from the last lesson and review the story. 2. Read aloud today's lesson goals and understand them.	dass.a .a .a .a .a .a .a .a	 Making them remember that Swimmy has sad feeling in this scene, using pictures and letters Make them read at home and prepare for the lesson Setting a lesson goal from the question, Why did Swimmy regain energy? sam Write a letter to Swimmy	見方・考え方を広げたり、書くことで考えを確かめ理解を認めたりするなど、児童の考える力は彼々 に買ってきていると言える。しかしー方で、「考える力」の立たとなる言葉や用語の理解、計算技能な どに個人差が見られ、全体としても基礎・基本の定着をいう点で課題が残された。 こうした課題に対して基礎・基本の定着を図りながら、一人一人のもっている値がけ分に引き出せ るような好いきたいと考える。そこで、これまでの「考える力」を育てる指潮は継続し ながらも、研究全体を供表改善、学習現象・家庭学習、学習環境を統合した「学び方」という視点で捉 え直し、たわら考考が出離させながら児童の主体的な学びを含てていきたいと考えていてる。 特に今年度は、学習習慣の中の「学習規律」と「家庭学習」にスポットを当て、学習規律を身に付け させるための手立てや授業につなが多葉選学習のさせ方などについていての研修を認めるとともに、それら が現象の中でどのように増熱しまた物な学びに結むでくのかを提案研究を通して検証していきたいと考 える。 なお、これまで本校が実施してきた取り組みを「学び方」指導として以下のように分類する。 (1) (提集改善)・い「課題をつかむ」~「まとめる」など、提集での学習活動としての学び方 ○「学習習慣表」 い「ほかく」」など、実品学習における基 本的なルールとしての学び方 ○「学習習慣表」 ○「取っ子の学習ルール」」◇「ハンドサイン」 ○「学習習慣表」 ○「取っ子の学習ルール」◇「ハンドサイン」
Think and connecting the idea.	25min.	 Read and talk about interesting sea creature. Jelly fish looks like rainbow-jelly. Lobster looks like 	dass.	 Write sentences which describes interesting things' on the board in order to show them narrative expressions. 	 (3)(反復練習) ~ 「宿風」や「自学(予暦・復習)」など、東京学習や急人としての学び方 ○「京原学習の→引き) ○「家庭学習がんじりカード」 ○「京原新豊新会」 ○「スキルタイム」 (4)(学習環境):「「敬重」「ジオ・ア」「人力」など、学習環境を活用した学び方 ◇「学習の足跡」 ◇「読書カード」 ◇「学習ユーナー」等 ◆◆◆◆◆◆◆ 国 語 科 研
~ * * * * * * * * * * * * * * * * * * *		 (3) Unfamiliar fish. Theyare pulled with invisible strings (4) Seaweed forest growing on the rocks looks like candies (5) Eels. Theyare long as if forgetting about their tails when looking at their face (6) Pink sea anemone swinging in the wind looks like palm tree 		 → Show enlarged pictures on the board for better understandings → Look at the pictures used in figurative expressions and identify similar parts ◇→ Expanding imagination while listening to classmate's ideas about interesting sea creatures 	Шат 47 Ф Каски - ФУС 1 Феролани Орісти за кладовани Орісти за кл

Process of Lesson Study of School Based Teacher Training



Process of Lesson Study of School Based Teacher Training



Process of Lesson Study of School Based Teacher Training



- 4. Findings: Professional Development in Practice
- 1. Open lesson documents serve as an important source of information for lesson study
- 2. Open discussion and lectures by academic supervisors are well combined in consultative meetings
- 3. Lesson study contribute in creating collaborative learning environment
- 4. Diverse background of academic supervisors helps Implement quality training sessions
- 5. Goals of lesson study are well shared among teachers, school principals and academic supervisors

26 5. Teachers' Perception on Professional Development in Akita 5.1 Data collection Used mixed methods (interview & questionnaire) June to August 2015 Respondents School **Principals/** Head of **Teachers** School municipal Head **Principals** Officials of **Board of Teachers** School Akita Educatio Vice **Bureau of** 187 survey **Principals Education**

Questionnaire Overview

responses

■ 32 questions

15 interviews

Questionnaire Categories :

- **Background Information** 1)
- Teachers preparedness in facilitating transversal competencies in classroom 2)
- 3) Professional development for teachers to facilitate transversal competencies learning
- Transversal competencies in increasingly inter-connected world 4)

5. Teachers' Perception on Professional Development in Akita 5.1. Techers' preparedness (1)

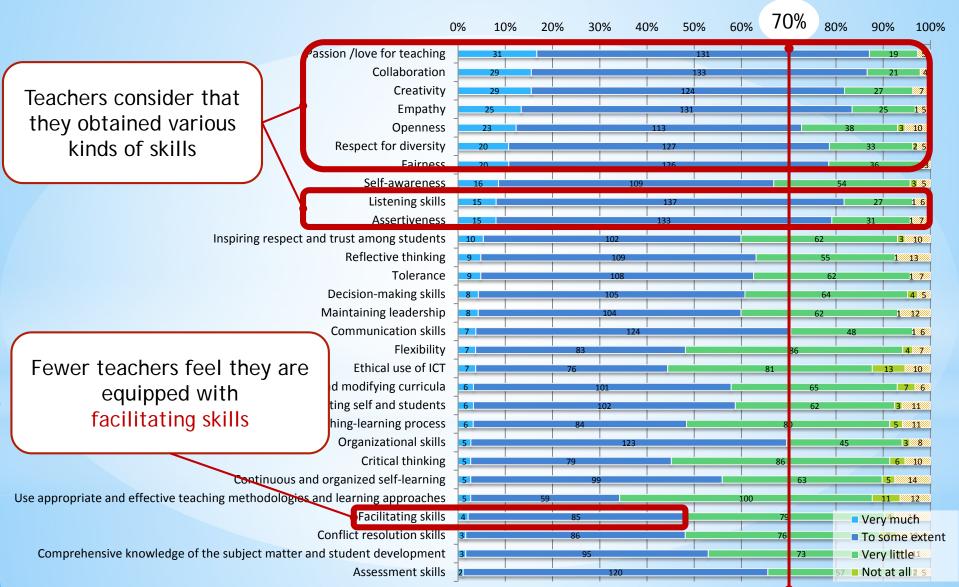
Skills and competencies important for teachers



5. Teachers' Perception on Professional Development in Akita 5.1. Techers' preparedness (2)

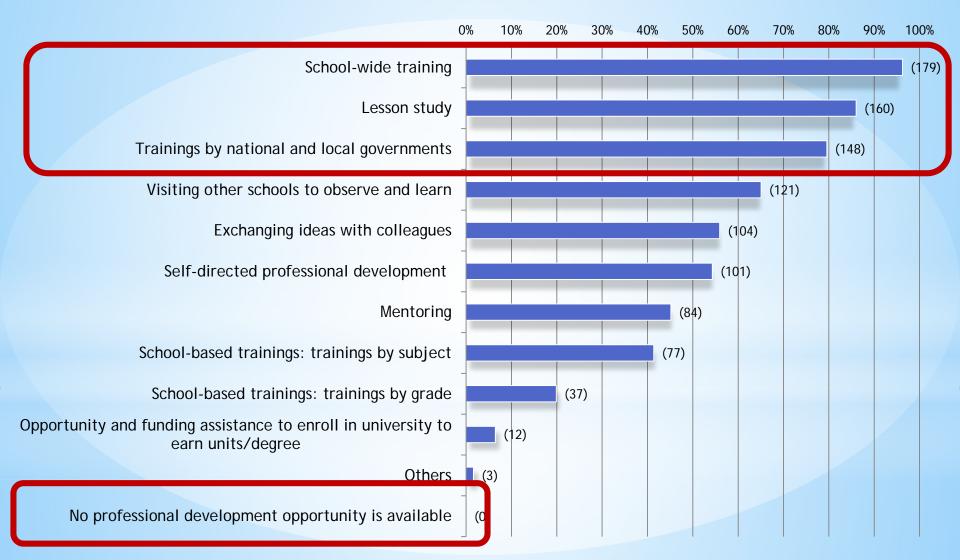
28

Skills and competencies teachers feel being equipped



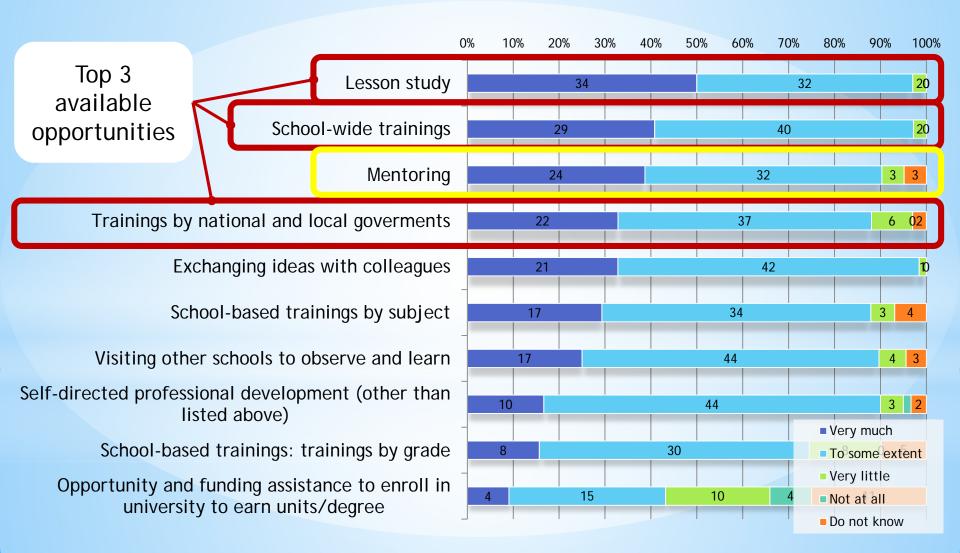
5. Teachers' Perception on Professional Development in Akita 5.2. Planning and Implementation (1)

Available professional development opportunities



5. Teachers' Perception on Professional Development in Akita ³⁰ 5.2. Planning and Implementation (2)

Perceived <u>effectiveness</u> of professional development opportunities



5. Teachers' Perception on Professional Development in Akita 5.2. Planning and Implementation (3)

31

Frequency of participating in self-directed learning opportunities

Very often Sometimes	Not much	n 🔳 Not a	at all 🛛 🗖	Do not kn	ow				
(0% 10	% 20%	30%	40%	50% 6	50% 70%	80%	90%	100%
Participating in school-level study group such as lesson study		72				102			<mark>6</mark> 2
Seeking advice from senior teachers and colleagues		53			1(28		2	
Using information through internet and other medias to update oneself of current trends and researches in education		44			110			29	
Reading related magazines and books	-	11			111			27	4
Seeking advice from managements		6			105			34	3
Exchanging information with teachers in other schools	18			109			49		7
Participating in training, seminar and academic conferences outside of school	13			119			5	0	2
Enrolling in universities to earn units/degree	17	48				113			7

Teachers' Perception on Professional Development in Akita³²
 5.3. Expected support for professional development (1)

Training needs of teachers

0% 10% 20% 30% 40% 50% 60% 70% 80% Training that includes focused discussion based on (135)detailed lesson analysis Training by expert to learn specialized knowledge (108)Training with various kinds of experienced-based (106)methods (e.g.role playing, case study) Exchange ideas with senior teachers and colleagues (93) on a daily basis Others (1)

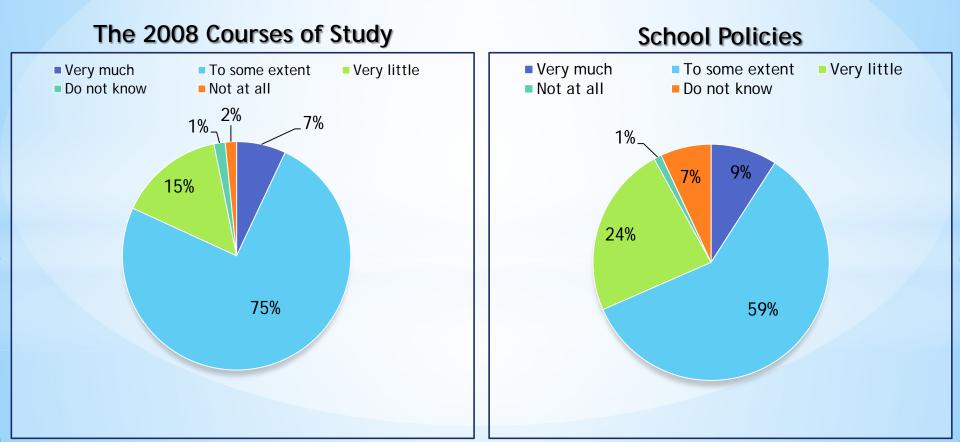
6. Education for Increasingly Globalized World6.1. National level Policy

- National education policy for preparing students in increasingly globalized world
 - Strategy for fostering globally competent human resource (MEXT, 2011)
 - Placing emphasis on developing basic academic knowledge & skills, physical fitness and communication skills at primary and secondary school level
 - 1) Increasing practical use of English in English Education,
 - 2) Promoting studying abroad at high-school level
 - 3) Improving quality and capability of teachers
 - The 2008 Courses of Study (MEXT, 2011)
 - Including the emphasis on preparing learners to increasingly interconnected society
 - Aiming for developing Japanese citizen with norm and attitude as member of international community, respecting traditions and culture of Japan

6. Education for Increasingly Globalized World6.2. Teachers' perception (1)

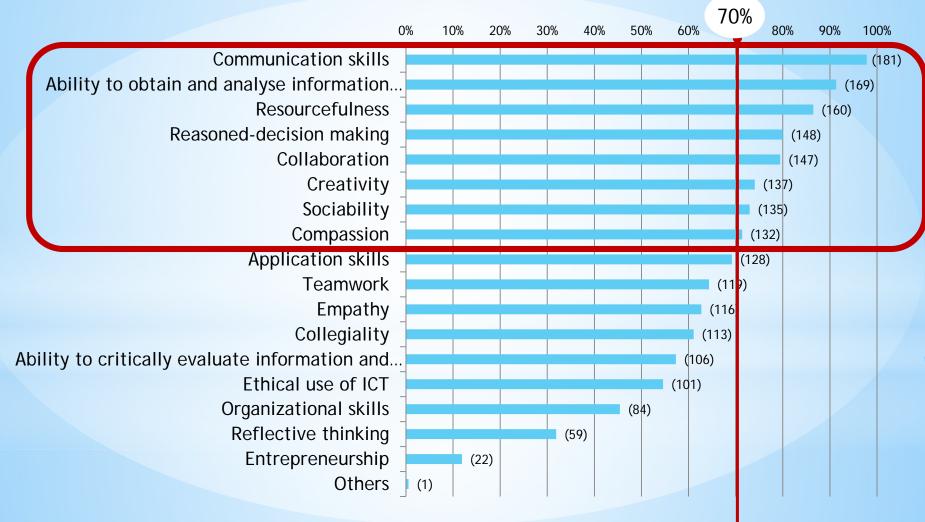
Level of the awareness of globalization in the 2008 Courses of study/ school policies

To what extent are you aware of globalization-sensitive education in the 2008 Courses of Study/ School Policies?



6. Education for Increasingly Globalized World6.2. Teachers' Perception (2)

Students' important skills and competencies in relation to interconnected world



6. Education for Increasingly Globalized World 6.2. Perception

Examples of educational activities related to globalization

Educational activities	Description	No. of cases
English education/Period of Integrated Studies	lessons with international language teachers (ALT: assistant language teachers) Learning international cooperation through the period of integrated studies	8
International exchange events	Communication with partner schools outside Japan international camp with international students of Akita International	7
Furusato (hometown) education	 inviting local people as lecture to learn various aspects of their hometown Experiencing local events with local people Short field trip to discover hometown 	7
Career education	Workplace experience - Workshop with people with various kinds of occupations	6
Education activities to develop students' transversal competencies	 School-wide poster session Increasing exchanging ideas among students on daily basis Increasing hands on experience in daily lessons 	4
Volunteer activities	Lecture about volunteerism - Experience volunteer activity with elders and people with disability	4
School-wide events	Annual sports fest - School trip - School events in general	3
Other	Lecture series for better living Lectures inviting people from outside	3

Achievements and Challenges (1)

Achievements

- 1) <u>School-based training</u> is well recognized as the <u>core of teachers'</u> <u>professional development</u> in Akita.
- 2) <u>Informal teacher training plays an important role in teachers' professional</u> development
- 3) <u>"Collaborative education between primary and junior high school"</u> scheme creates positive environment for effective teacher training programs
- 4) Teachers are engaged in <u>self-directed learning</u> for improving own abilities and for developing specialized knowledge
- 5) <u>School-based training</u> such as lesson study contributes in creating <u>collaborative learning community</u> at school
- 6) Teacher training programs in Akita are catered to meet teachers' needs in creating <u>comprehensive</u> professional development

Achievements and Challenges (2)



 Teachers expect more support from governments, in preparing themselves to promote transversal skills and competencies among student

- 2) Teachers are <u>not accustomed to criticizing</u> teaching practices of colleague teachers
- There is a gap between skills and competencies teachers perceive important to be equipped and those they believe to have acquired

Thank you yery much

Tokyo Institute of Technology



Shinobu Yume Yamaguchi Naoko Asano Enomoto Yukiko Yamamoto Akina Ueno