Methods

### Why is technology integration in PE needed?

#### Building core competency

Self management

- Knowledge information processing · Communication
- Creativity

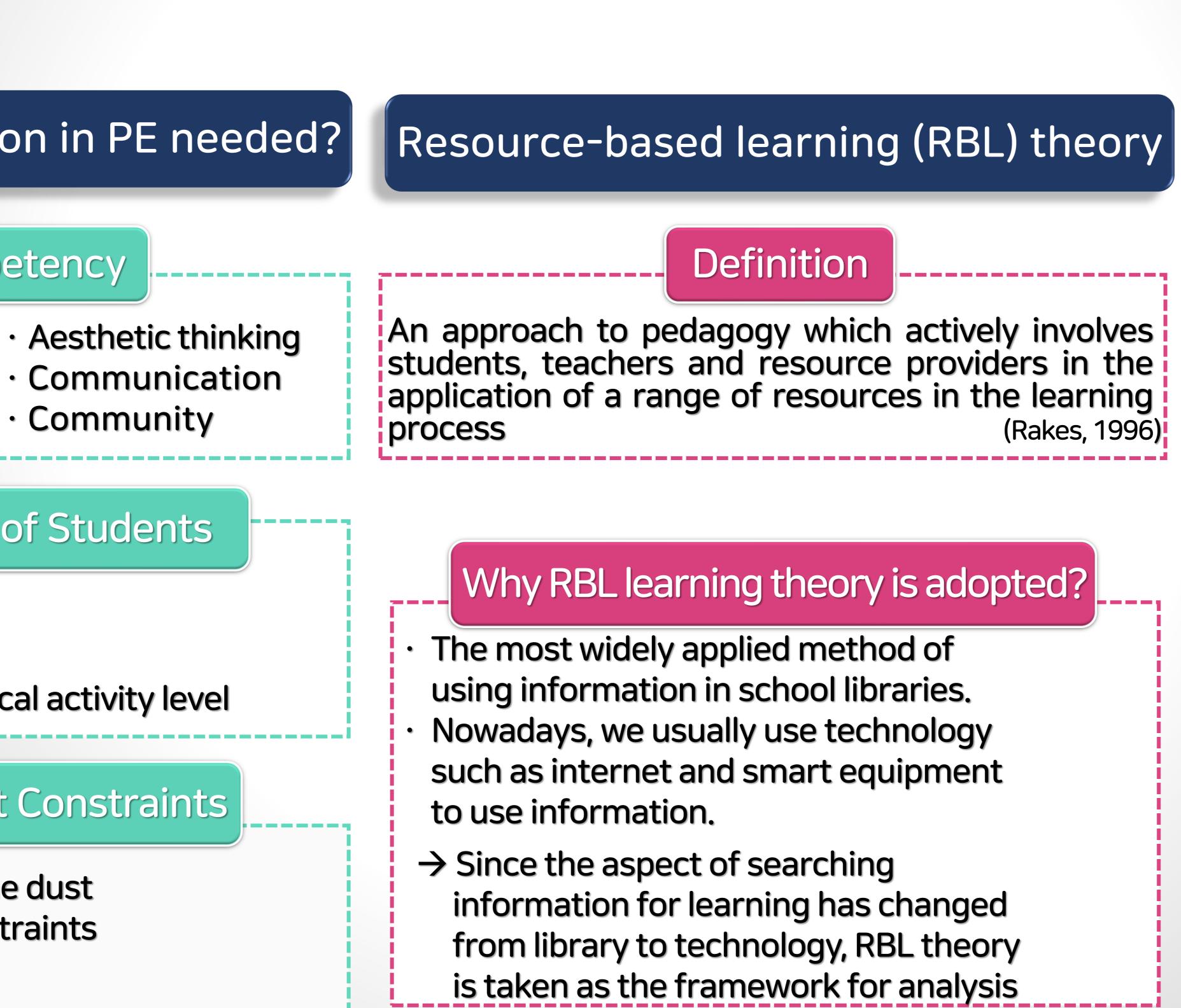
- $\cdot$  Community

#### Meeting Diverse Needs of Students

- Familiar with digital technology
- Education for multicultural
- Decreased moderate-vigorous physical activity level

#### **Overcoming Environment Constraints**

- Climatic constraints : Snow, Rain, Fine dust
- Physical education equipment Constraints
- Facility and Space constraints



Results

#### Purpose of research

(Rakes, 1996)

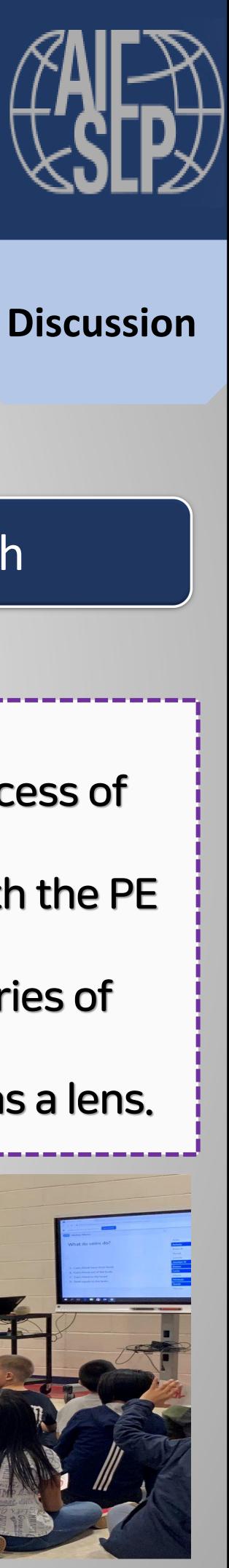
To explore the adoption process of

technology in PE classes with the PE

teachers' characters and series of

action through RBL theory as a lens.





Introduction

Methods

### Research design : Qualitative study



#### In-depth interview

Class observation

Documents

Literature review

### Research participants

- PE teachers from South Korea
- 8 PE teachers in secondary school
- They implemented technology
- integration in PE

### Collecting data

- In-depth interview
- : Semi-structured interview
- Classroom observation
- : Picture and video
- Documents
- : lesson plan and lesson contents
- Literature review
- : Articles, dissertations, and reports

Results

### Data analysis

#### Implementing RBL

- 1. Realizing to change the way of teaching method
- 2. Preparing to implement
- 3. Content production, organization, and management

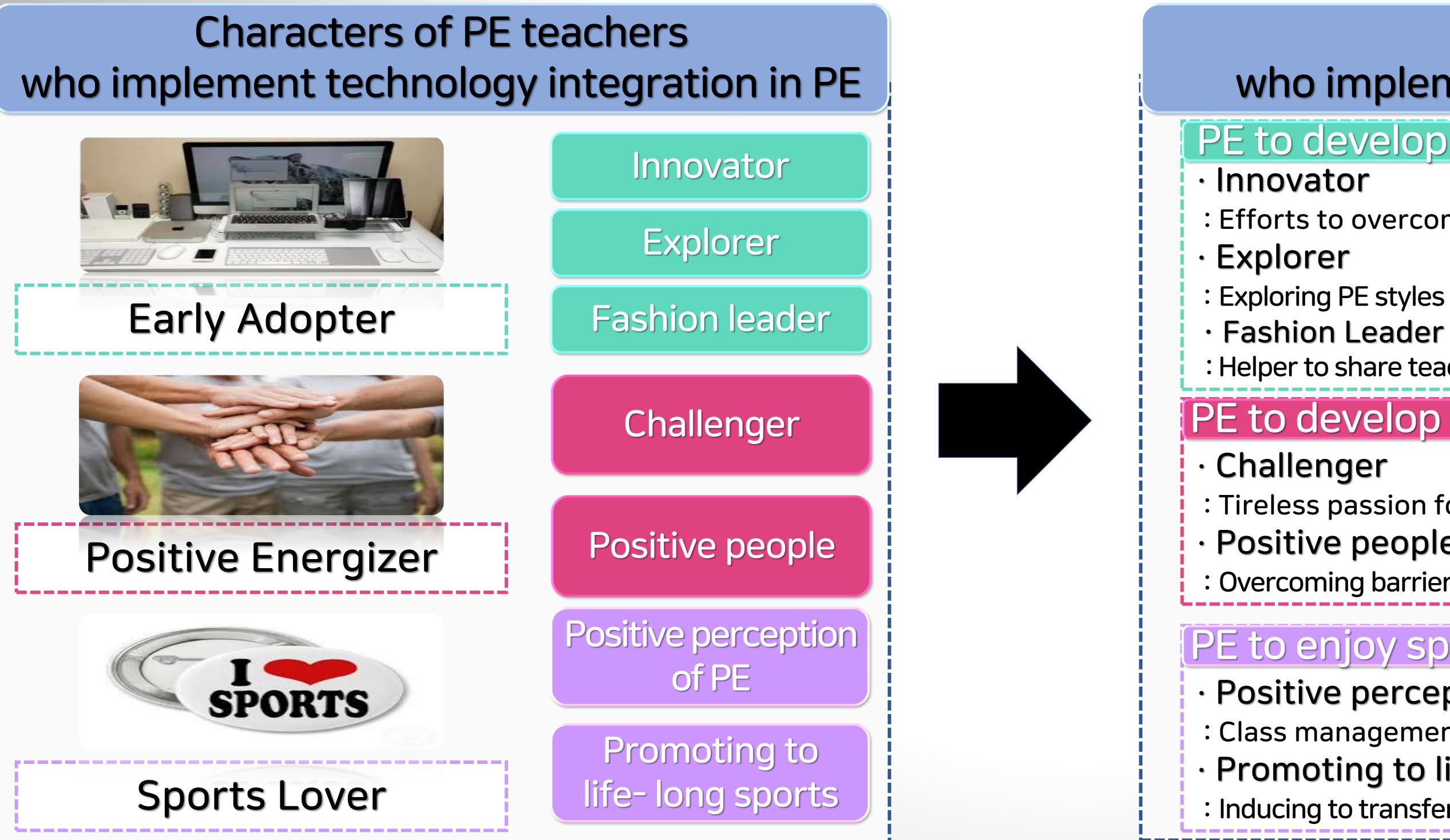
**Process of technology Integration in PE** 

- 1. Realizing the need for technology integration in PE
- 2. Preparing technology integration in PE
- 3. Selecting tools for technology integration in PE



Introduction

Methods





### **Aims of PE teachers** who implement technology integration in PE

PE to develop future core competencies

: Efforts to overcome the negative PE teacher ideology

: Exploring PE styles for students who will be members of the future society

: Helper to share teaching methods for fellow teacher

#### PE to develop positive energizer

: Tireless passion for teacher professional development

#### Positive people

: Overcoming barriers through positive thinking and implementation

#### PE to enjoy sports

#### Positive perception of PE

: Class management with student-centered learning

#### Promoting to life-long sports

: Inducing to transfer of what learned in PE class into life-long sports



Introduction

Methods

### 1. Realizing the need for technology integration in PE

- Technology integration in PE for teachers
- · PE class to meet the needs of diverse students
- : Students who avoid PE, Students lacking MVPA, Motivation for PE class
- Professional development for teachers
- : Exploring ways to immerse students in PE class
- Effective and efficient student evaluation
- : Feasibility for more opportunities and process-based evaluation for students

#### Technology integration in PE for students

- · PE class to develop future core competencies
- : Community activity, Collective intelligence, Creativity, etc.
- Increasing MVPA level for students
- : Overcoming constraints such as climate, equipment, facility and space

### **Process of technology Integration in PE**





### 2. Preparing technology integration in PE

### $\otimes$ Checking feasibility

- By checking technological advancement
- Advanced technology -> Increased teachers' confidence
- · By checking promoted teaching expertise
- Community of practice, University service learning, conference
- By checking school environment
- Designing PE classes to meet the school environment
- By checking possibilities through support
- : Material support of school and cooperative support of peers

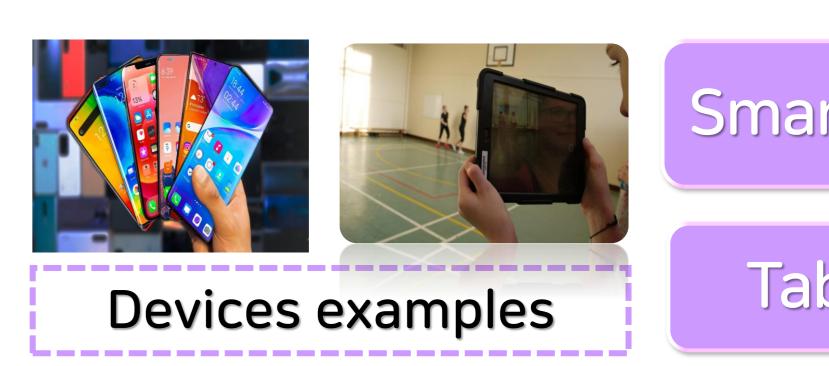
#### Setting up learning strategy

- Cooperative learning strategy
- : Smart device portability -> Interaction with teachers & peers  $\uparrow$
- Individualized learning strategy
- : Immediate and continuous feedback
- Self-directed learning strategy
- : Flipped learning, Self diagnosis



# Result.

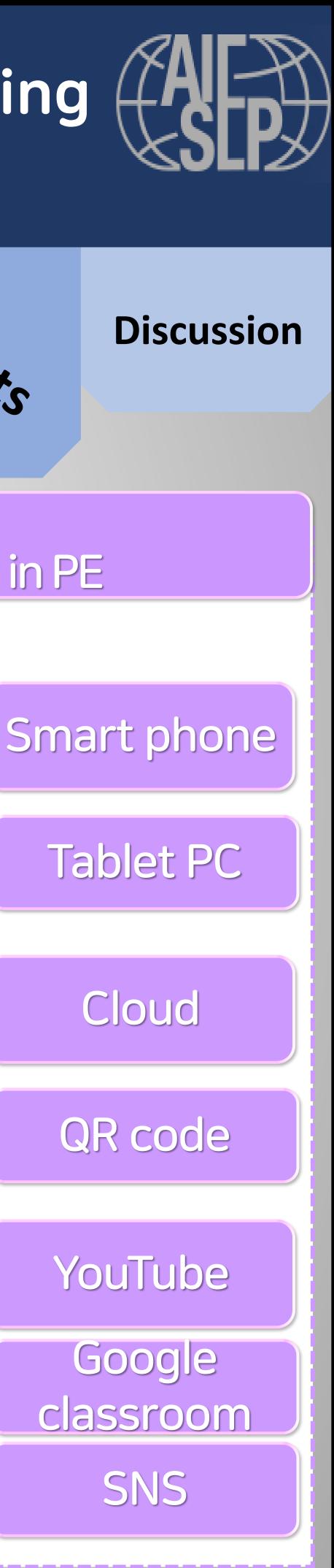
### 3. Selecting tools for technology integration in PE

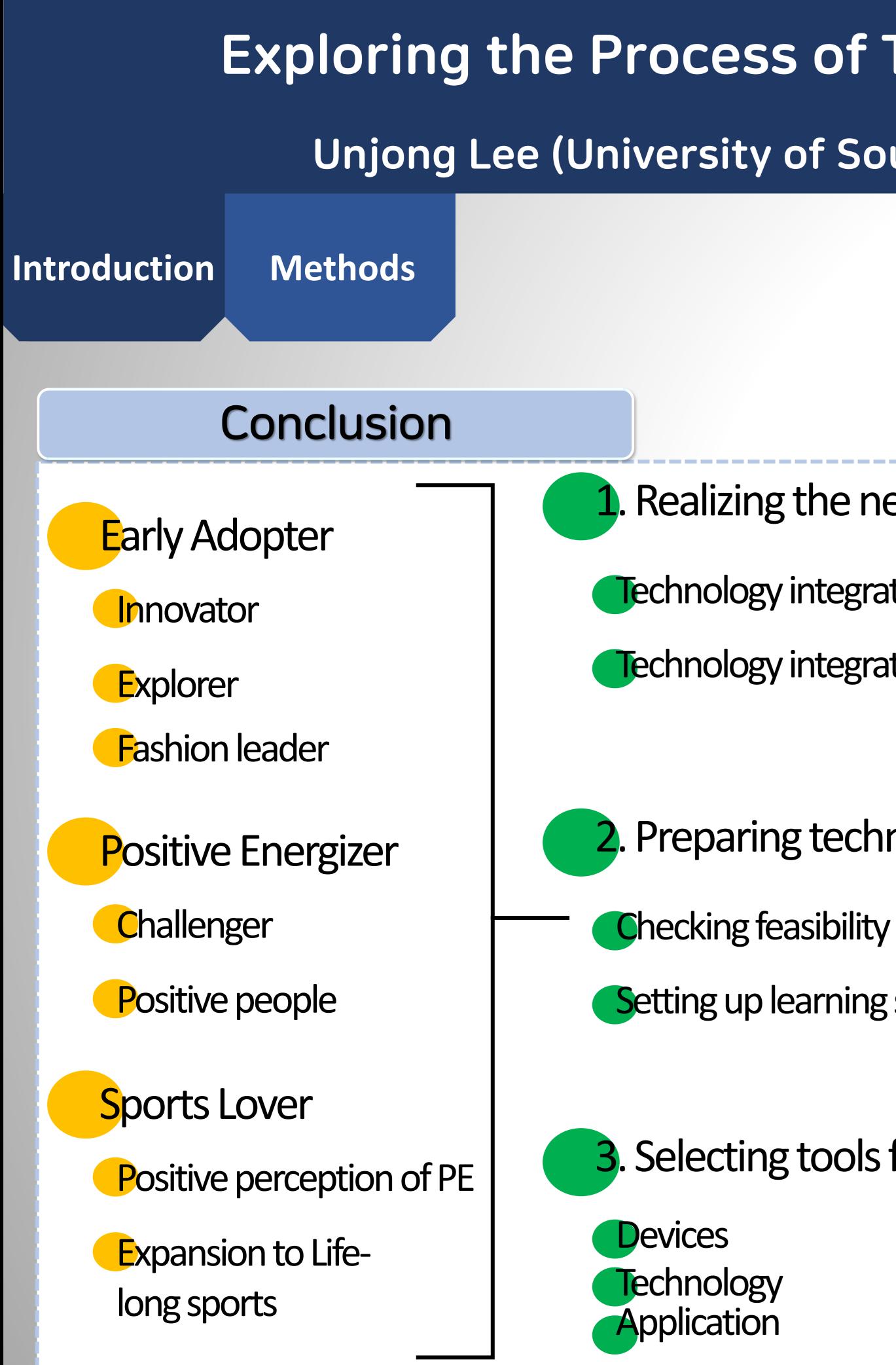




**Application examples** 

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### **1**. Realizing the need for technology integration in PE

- **Technology integration in PE for teachers**
- **Technology integration in PE for teachers**
- . Preparing technology integration in PE
- Setting up learning strategy
- **3**. Selecting tools for technology integration in PE









### Implication

. Before implementing technology integration in PE, accurate understanding is required.

**Results** 

- 2. In order to implement technology integration in PE, teachers should continue to **Change their teaching style**.
- 3. For implementing technology integration in PE, teacher's professional development should be prioritized.

### **Future Directions**

- 1. It is necessary to analyze the practical aspects of various technology integration in PE.
- 2. The effect of technology integration in PE should be analyzed with statistical studies for feasibility and acceptability.
- 3. The barriers and facilitators should be studied to promote technology integration in PE with perspective both student and teachers.

