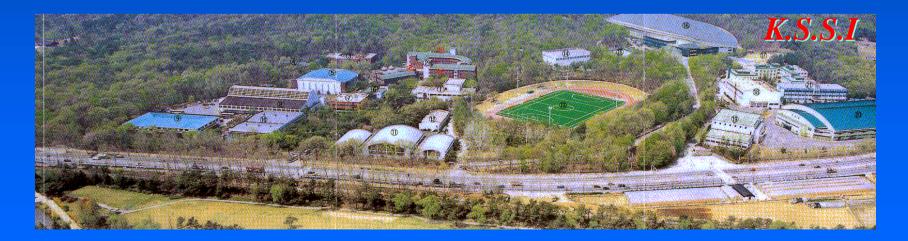
What Does An Effective Institute Look Like?



Korea Sport Science Institute Dong-Ho Park, Ph. D.



- I. Introduction
- **II.** Sport Science Support Systems of KSSI
 - À structural change of KSSI
 - Change of the field support system of KSSI
- **III. Roles of KSSI**
- **IV. Evaluating Effectiveness of KSSI**
- V. Challenges of KSSI for Effectiveness





The achievement from elite sports

- Showing national dignity to the world
- Promoting the people's morale
- Enhancing the community & national integration
- Promotion of sport for all in national level
- Getting positive outcomes in the country's international political & economic status



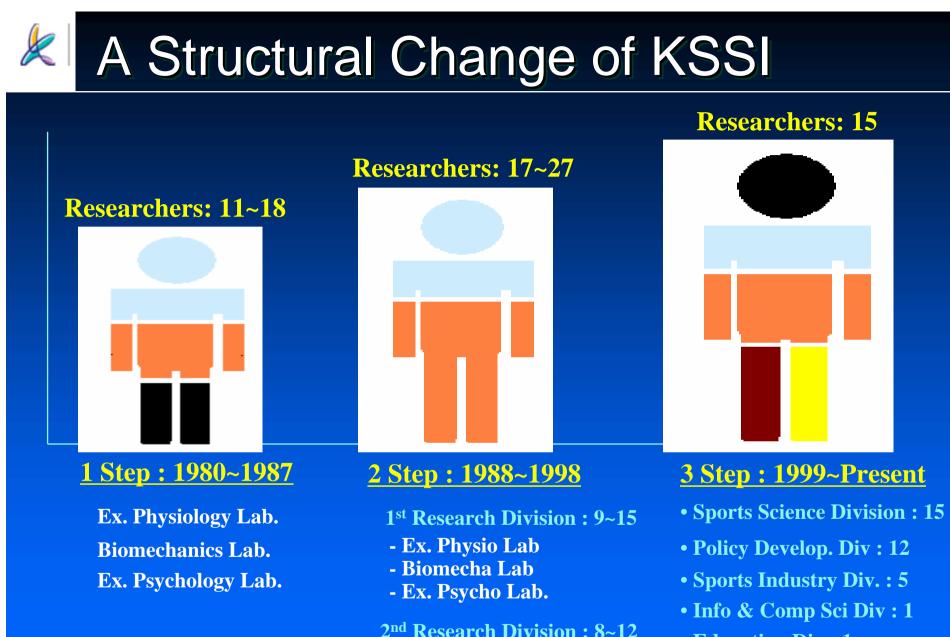


Starting gloomy future

- 10th rank of ('84, '88, '92, '96) Olympic games
- Except 2000 Sydney Olympic game

Reasons

- IMF economy crisis had a negative effect on
 - Sport investment and governmental support
 - Elite sport system : J # registered athletes & team
 - Budget cut : from the public & private sectors
- A constitutional change of KSSI
 - reduced the field support by Expansion of KSSI' roles



- Ex Prescription Lab.

- Computer Lab.

- Measure. & Evalu. Lab.

• Education Div : 1

•Total : 33

Change of the Field Support System of KSSI

Researchers: 15



<u>1 Step : 1980~1987</u>

Individual Support System1 researcher : 2 ~4 events

2 Step : 1988~1998

Team Support System

- A ball game S. T.
- A match game S. T.
- A record game S. T.
 - Categorized

3 Step: 1999~Present

Team Support System

- Main Event : 11 events
- Policy Event : 12 events
- consisting of experts related major field of stu.

• For the efficiency of investment

Change of the Field Support System of KSSI

- For the efficiency of investment
- Main Events : total 12 events
 - A record game (5 events) : Archery, Shooting, Fencing, Weightlifting, & Gymnastics
 - A ball game (4 events) : Table tennis, Handball, Hockey & Badminton
 - A match game (3 events) : Taekwondo, Wrestling & Judo
- Policy Events : total 12 events
 - Long distance running, Swimming, Diving & winter sports : short track, speed skating, ski jump etc.,







Roles of KSSI : depending on each Division

Sports Science Division : Research, Support & Education

- Research (national research institute)
- Education
- Performance planning & analysis
 - A basic & specific fitness measurement,
 - Results from various competitions (OG, AG, WC)
- Sports talent identification
- Application of scientific training
 - Conference group : 7 (KSSI) + 5(NTC) = mediates a conflict generated bw coaches & researchers. Meets once a month
 - Workshop : held biannually for improving & sharing of sport science knowledge across sports.
 - Works for spreading theories of sports science
 - A class of sports science : coaching skill. 1/month
 - A presentation of the field case : S & F case. 1-2/yr
 - Publication of a training guide book & magazine

Roles of KSSI : depending on each Division

- **Policy Development Division : Research**

- Analyzing, evaluating, & developing new policies
- Developing a 21st century model & implementation strategies for Korean sport development
- Research on policies to foster & support the sport industry

Sport Industry Division : Research

- Developing profitable sporting goods
- Developing systems which lead to a more scientific approach to sports activity

Roles of KSSI : depending on each Division

Information & Computer Science Division

- Developing a sport information network & application system
- Operating an internet cyber fitness evaluation & management system
- The management of measurement data
- Development of diagnostic system

Education Division

- Producing coaches & instructors at various levels
 - Education for the 1st & 2nd level advanced coaching leader
 - 418 1st class coaches : Professional level (1990, 590hr/7mon)
 - 12,000 2nd class coaches : Semi-professional level
 - Education for the 1st, 2nd, 3rd level advanced instructor

Evaluating Effectiveness of KSSI

- Sports Science Division : Research, Support & Education
- Research :
 - Research outputs : quantitative & qualitative evaluation
 - 5 grades of qualitative score: a(1), b(0.9), c(0.7), d(0.6) & e(0.4)
 - 100 point (1project) \times c(0.7) = 70 point
- Support :
 - Medals in competitions (OG, AG & WC)
 - level of fitness & record development during off-season
 - level of coaches' satisfaction on the field support
- Education :
 - survey of satisfactory level



Evaluating Effectiveness of KSSI Policy Development Division : Research

- Research :
 - Research outputs : quantitative & qualitative evaluation

Sport Industry Division : Research

• Research : -Research outputs : quantitative & qualitative evaluation

Information & Computer Science Division

• Research : -Research outputs : quantitative & qualitative evaluation

Evaluating Effectiveness of KSSI

Education Division

- Education :
 - •The number of enrolled coaches & instructors
 - Survey of satisfactory level on the Education by coaches & instructors



Challenges of KSSI for the Effectiveness

Reinforcing the sport scientific support

- •Background : KSSI has taken lots of mission : support of sports science has been shrunken & overlooked
- •The future investment & concern should be centered around
 - Recruitment of researchers
 - Expansion of experiment equipment
 - Increased research projects in the field of various areas

Selecting & Progressing the intensive investment sports-

- Background : for the efficiency of investment
 - Categorize sports by international competence

Challenges of KSSI for the Effectiveness

Rationalizing the training of elite athletes & coaches

•Background : elite athletes have been trained in the OTC for a long period. During the period, their personal life was sacrificed & educational opportunities were limited because they stayed in the OTC dorms for that time.

•The new training systems refer to a mid-term intensive method & the summer/winter intensive training that takes place during the school breaks.

Strengthening the welfare systems for athletes & coaches

- To increase athletes' & coaches' motivation for their athletics
- To devote themselves to their sports without concerning their possible unluckiness
 - pension increases

 - athletes' injury insurance
 athletic scholarship for student-athletes
 tuition support for continuing education



Challenges of KSSI for the Effectiveness

Reinforcing sport diplomacy

•Background : the successful outcomes in the big games depend on athletes' effort with their organizational support on of which is a matter of diplomatic activities

•The quality exchange programs between competent countries & the hosting of important international competitions help athletes do their best in the advantageous situations

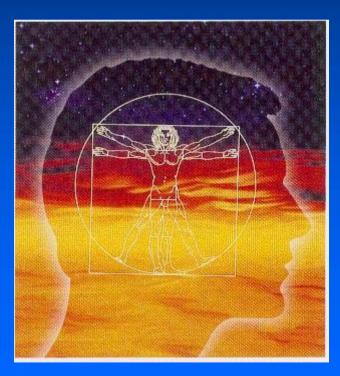
Establishing a cooperation system with institutes of sports science existed in universities

• Background : insufficient manpower & well-equipped scientific support institutions



Developing appropriate measures for KSSI effectiveness -

- •Value evaluation program
 - Investment Vs output



Thank you for listening!!



The Primary Factors of Institute Success

Factors

- Financial Support
- Autonomy & independency of Institute from other organization
- Environment for focusing on a research
 - time & salary
- Authority of researchers on the athlete training
- A chance of national team evaluation
- Relationship between coaching staffs & researchers
 - Establishing a system for promoting the relationship

Measures

- The ratio of occupation's change :
 - from institute to college or other organization
- The ratio of an excellent applicants for entrance to the institute



Is medal success the only thing of importance?

- Improvement of athletes' record
- Athletes' health : ratio or number of athletes' injury
 - by logical training method
- Education of athletes & coaches : producing specialists

How to measure the effectiveness of support provided?

- The change of athletes' & coaches' requirement & attitude
 - positive attitude to support provided
- The evaluation of coaches

How to know what is being provided is making a performance difference?

- Video, motion analysis : staring posture (short-track) limited
- Level of Improvement of athletes' performance
 - Based on a basic & specific fitness measurement



Support Team (a match game)

Event	Researcher	Support Team
Taekwondo	Kim, YS	Youn, JR (Training)
Wrestling	Youn, JR	Kim, Y (Ex. Nutrition)
Judo	Kim,Y	Kim, YS (Ex. Psychology)
		Bak, JH (Biomechanics)
		Park, DH (Ex. Physiology)