

Short Presentation: JISS - Smart system to manage Sports related videos

IX FORUM ON ELITE SPORT (PUERTO RICO)

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JISS(Japan Institute of Sports Science)

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Videos on High Performance Center

- Use videos on training to check movements
 - Immediate feedback
 - Precise video browsing
 - Archive them for later use
- Use videos to archive competitions
 - To share the contents
 - Check rival's performances
 - Check newest techniques

We already have YouTube...

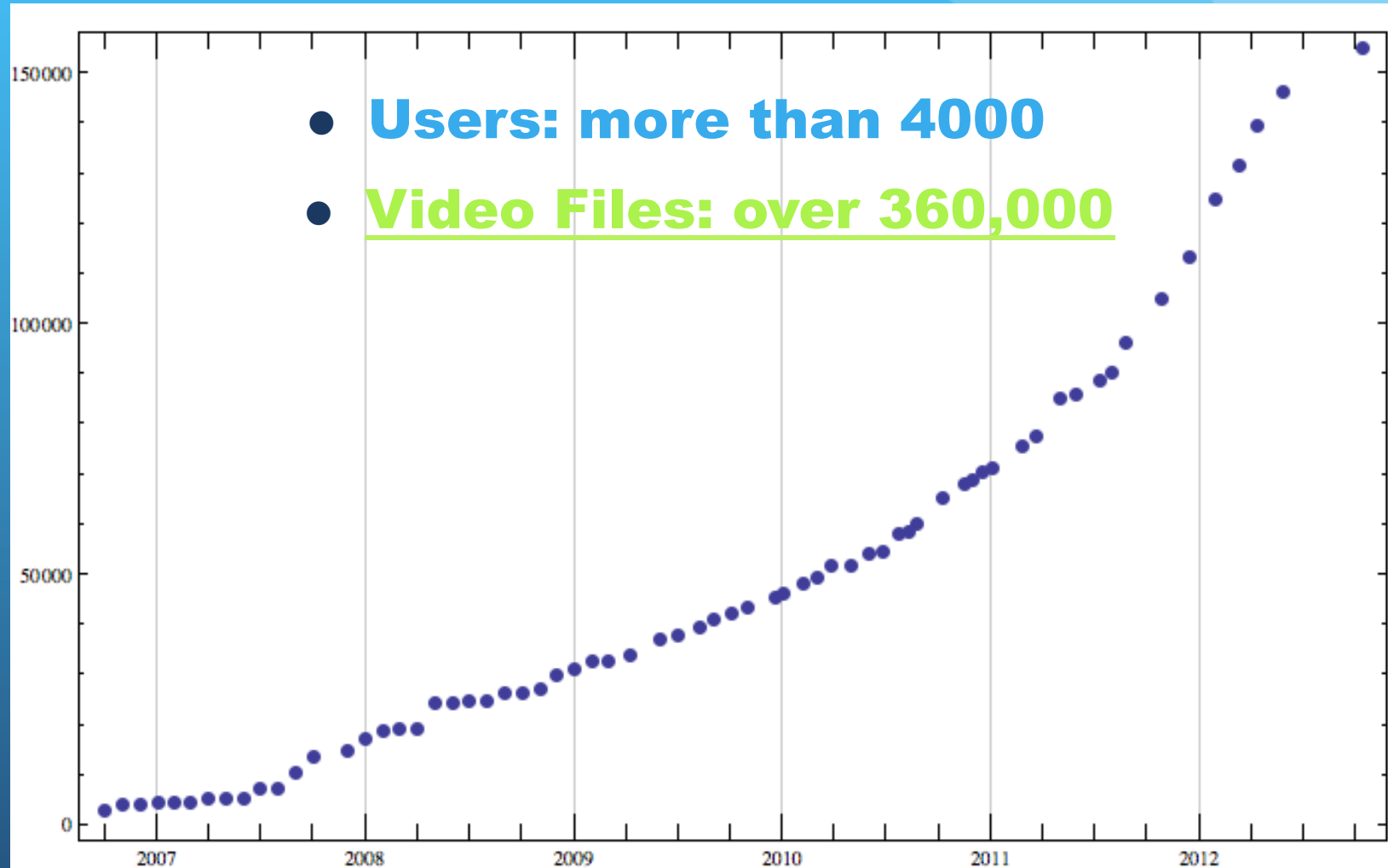
YouTube vs. Smart

- For general purpose
 - No step-by-step
 - No Slow motion
 - No Multiple-view
 - [shirai on YouTube](#)
- For Sport performance
 - Yes, step-by-step
 - Yes, Slow motion
 - Yes, Multiple-view
 - [shirai on Smart](#)

Smart-system

- JISS (Japan Institute of Sports Science) original software
- Sports specific player and server
- Share the videos and analyze the videos

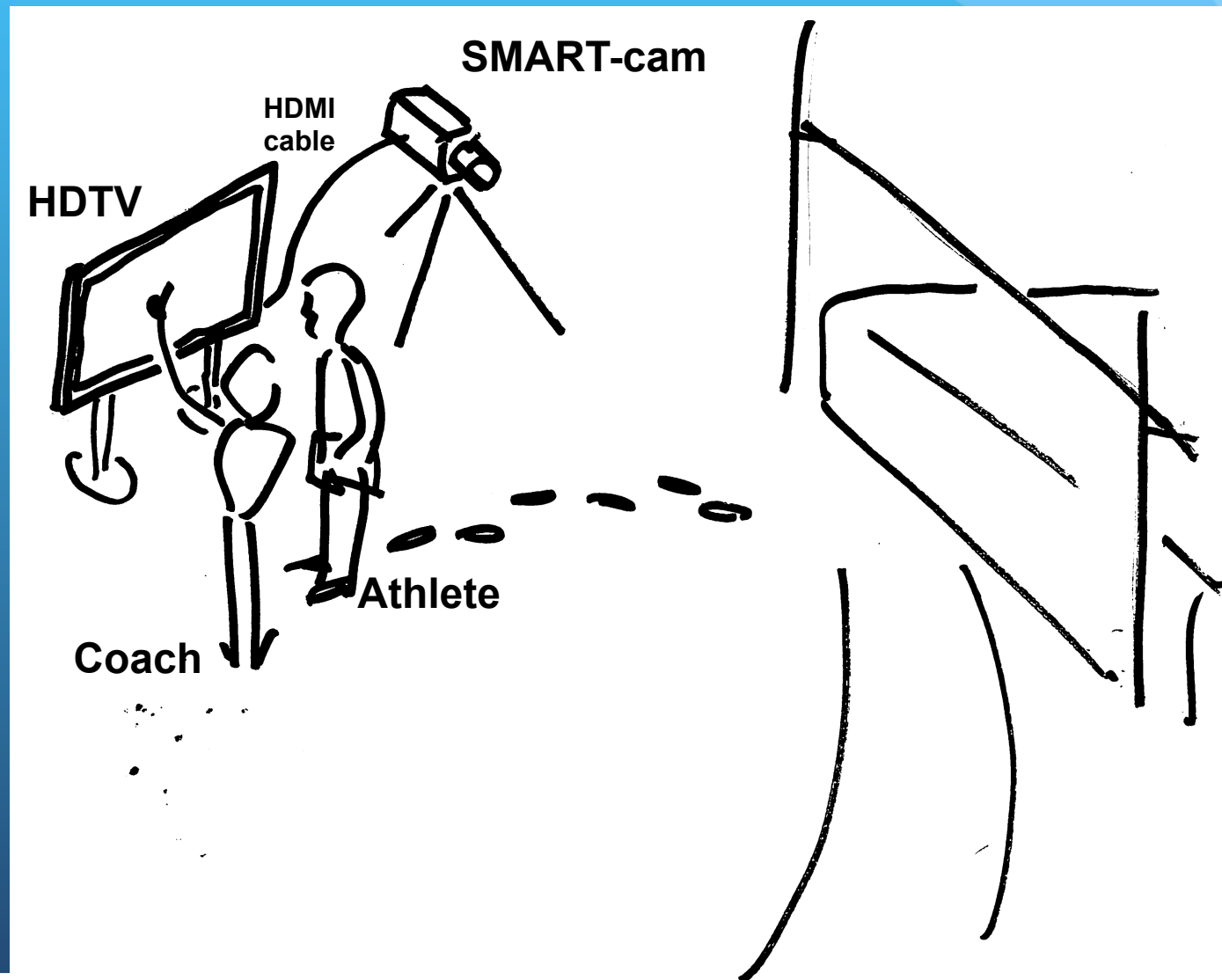
How Smart grows (2007~2015)



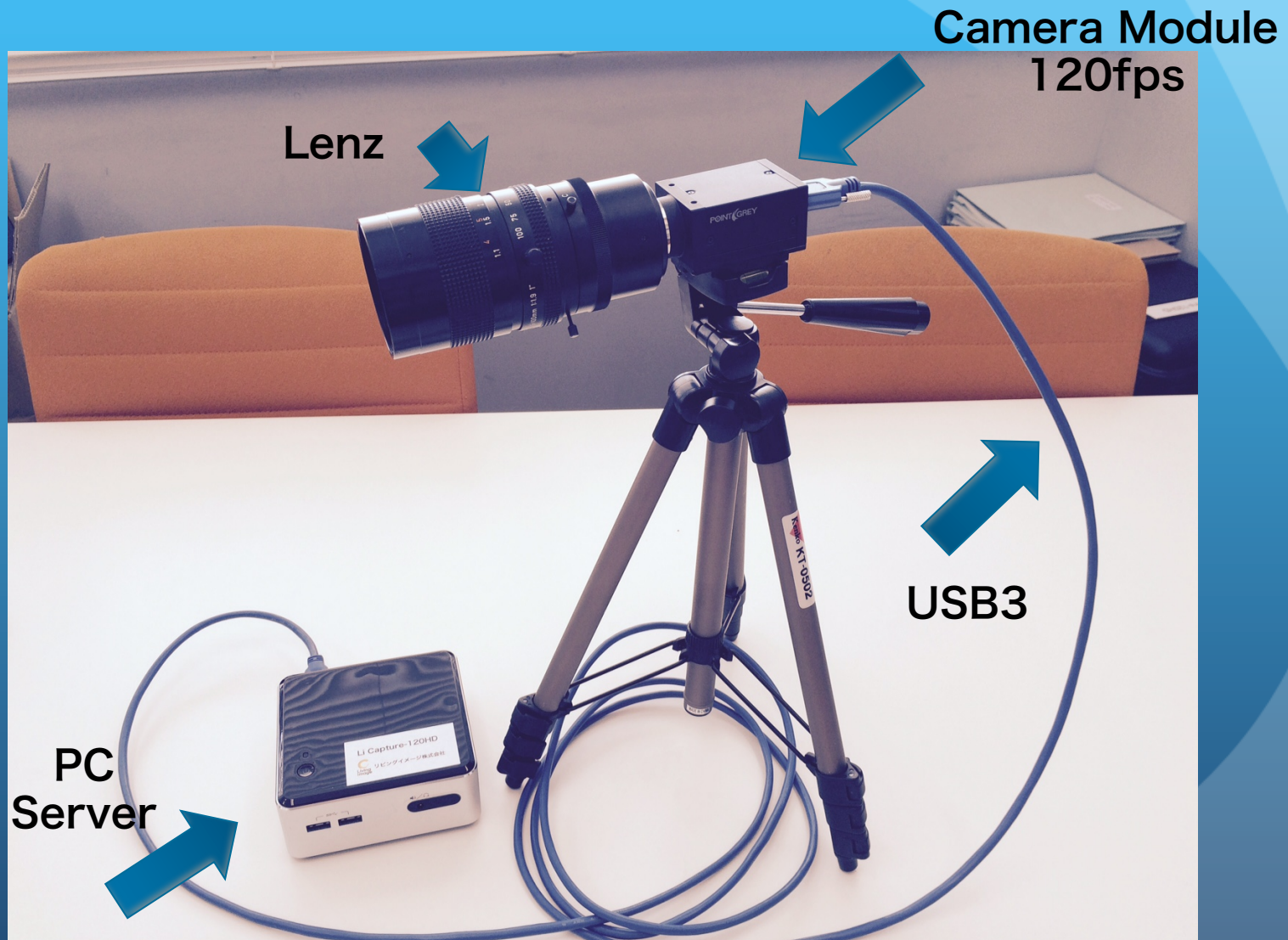
Smart-camera project

- Immediate feedback for training
- slow motion
- Pre-Trigger
- Smart-server inside

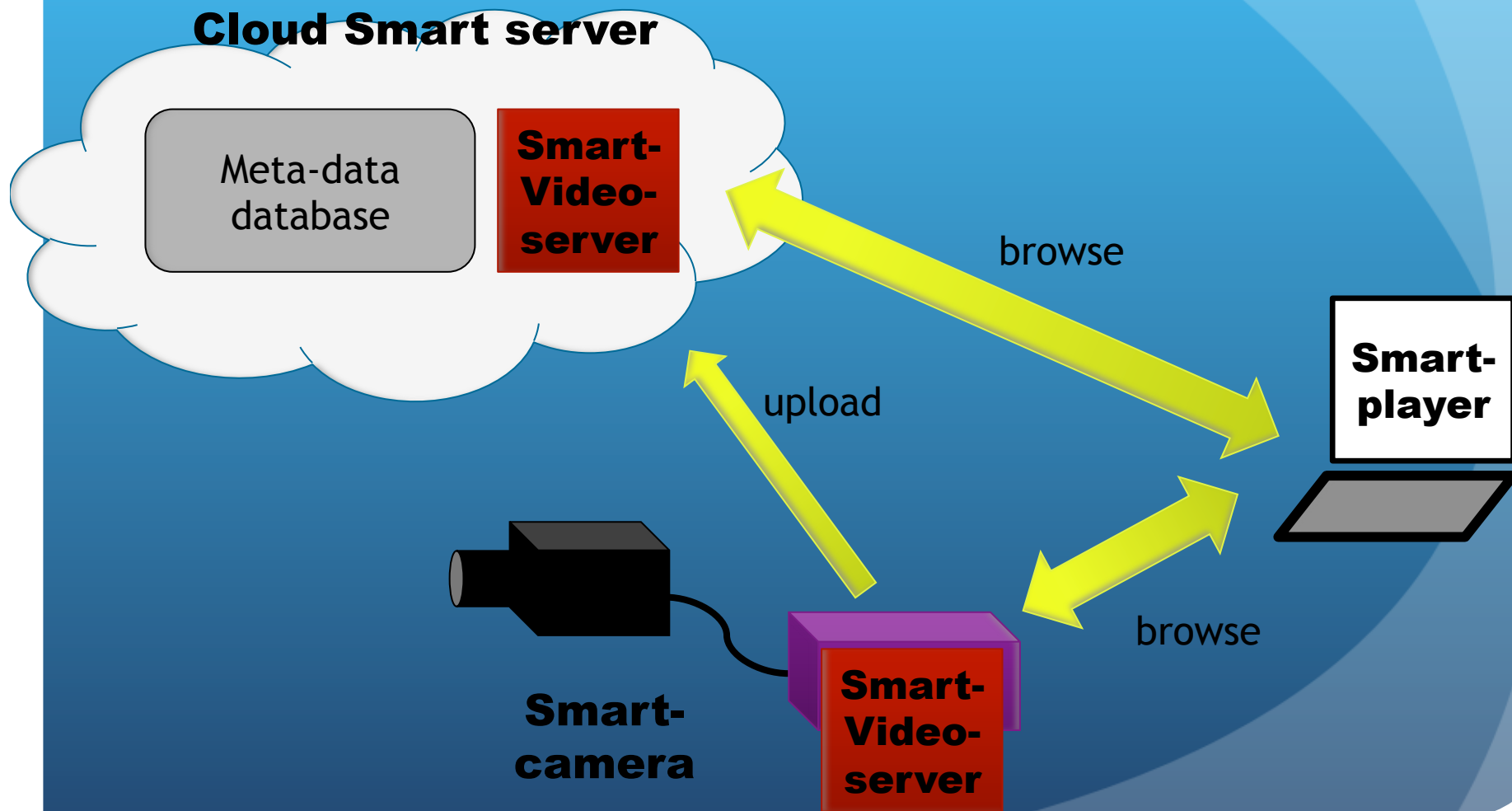
Immediate feedback



Smart-camera



Smart-system



Future of videos on High Performance Center

- International Federations start to share competition videos
 - Judo federation and table tennis federation cases
 - HPC should help these direction
- HPC will share training facilities with other countries
 - Sharing video between HPC is necessary

“Systematic cooperation is necessary”

Systematic cooperation will help

- Reduce capturing cost
- Reduce developing cost
- Integrate videos from athlete's perspective

“Video software environment is necessary”

JISS may contribute video software environment

- Smart will be Open Source
 - Smart-player applications and video server source code will become free to access
 - Non-profit organization can use Smart-system with no cost
 - IAT and HKSI cases
- Workshop and training camp will be necessary

Also the benefits of the videos...

- MLB-AM(Advanced Media) get 400million\$/year from the Internet videos service.
 - 100\$/year = a right to see all MLB matches
 - 4,000,000 users in the world
- A Japanese small company get 1million\$/year for the Internet service of a pro-basket league.
 - 100\$/year = a right to see all matches of the league
 - 10,000 users in Japan

“Videos and the metadata are not only use for top athletes training,
But also videos will be good resources for NF and High Performance Center.”