

MOVESENSE IN MEDICAL USECASES

KAASA SOLUTION
DÜSSELDORF, FEBRUARY 2019

1 SENSOR.
1 000 IDEAS.

Let's talk about yours!



Movesense = Movements = Sports ???

Movesense allows more ideas than optimizing performance in sports.

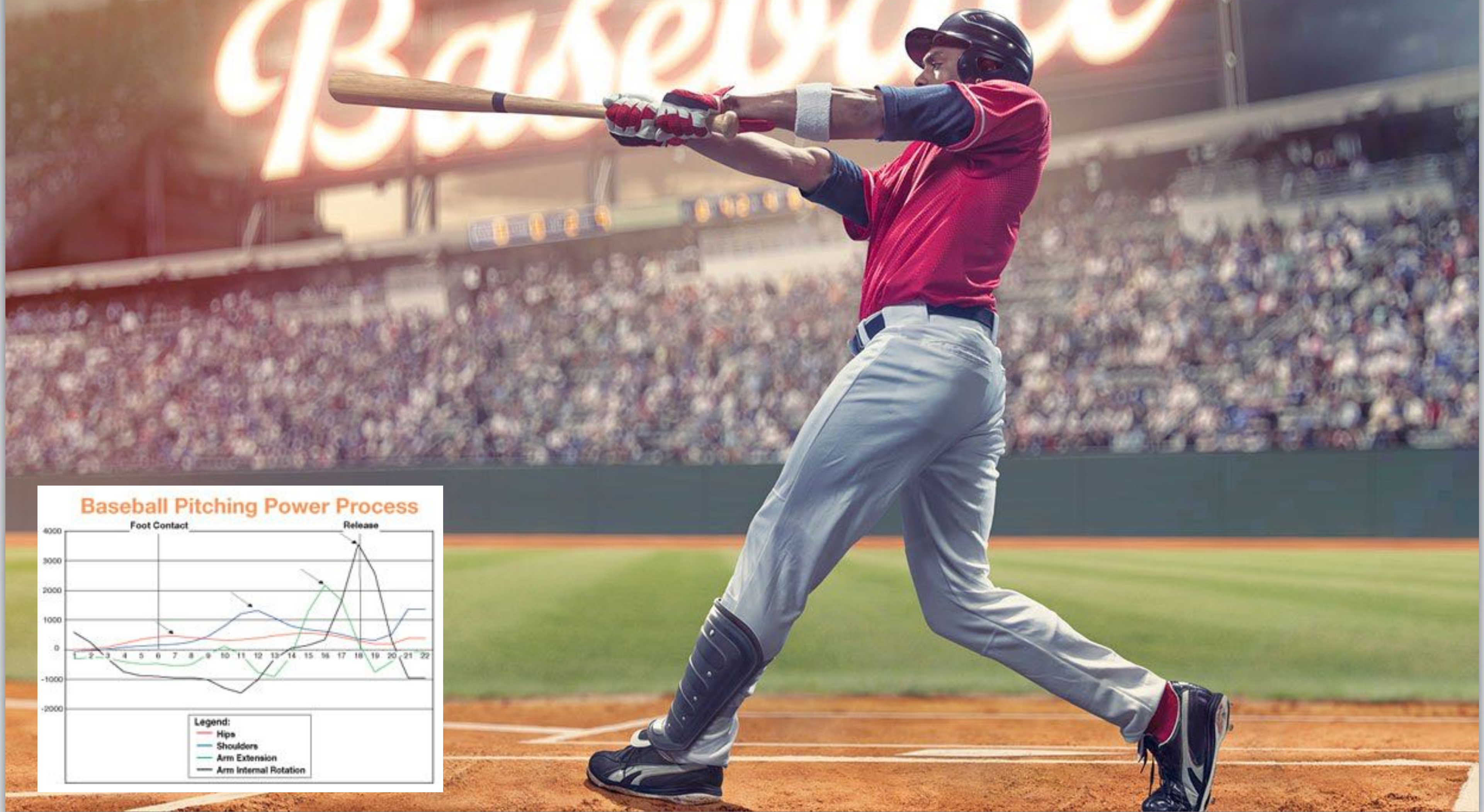
Medical use cases are one.

Example:

We try to use our *kinematical sequence analysis* for the validation of movements with clinical professionals.

KINEMATICAL VALIDATIONS

WHERE DO WE COME FROM?



KINEMATICAL TECHNIC TRAINING

POWERED BY MOVESENSE



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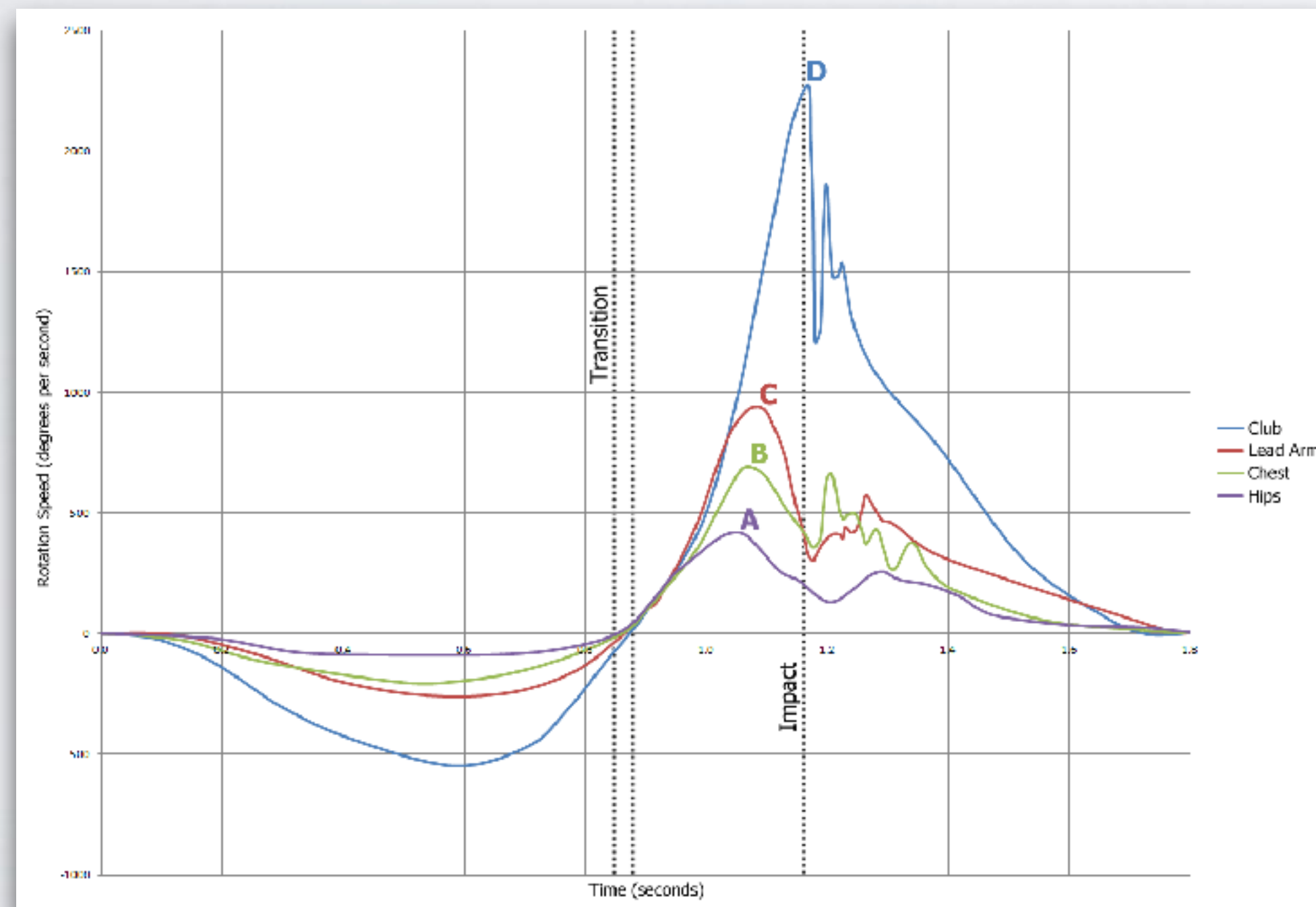


SHOOTING STAR

POWERED BY MOVESENSE

SHOOTING STAR

POWERED BY
MOVESENSE



New training tool with
kinematical sequences.

Show your movements and
become the best golfer you've
ever been.

SHOOTING STAR

- Kinematical sequences with 4 synchronized sensors
- Visualized realtime feedback for hip, back-of-jab, jab-wrist and chest analysis
- Compare your performance with professional references
- Synchronized videostream of your swings
- Coachview feature
- Implemented artificial intelligence
- Cost efficiency and teamwork production with raw data

KINEMATICAL VALIDATIONS

SOME USECASES AND MANDATORIES

MEDICAL USECASES

USP

- Several synchronized sensors in realtime
- Synchronized video stream possible (also as a second screen)
- Raw data (responsibility of data on your side)
- Cost efficiency
- Just a few high-priced market alternatives
- A lot of non-digital gold standards in use
- Future technology with big monetarization chances

MEDICAL USE CASES

QUESTS

- Big future technology players (Google...) are always hidden concurrents
- Coding medical products (costs, time, law)
- Sometimes as more innovative a project as smaller a target group could be (f.e. high risk surgeries)
- Question: Where do we connect the sensors? (testing!)
- Bio mechanical validation of movements (costs, time)

MEDICAL PRODUCTS QUESTS

- New law starting April 2020 (new certifications - medical device regulation / MDR)
- Own studies needed
- No more „Me-Too“ products possible
- More paper work. Better quality.
- Without medical intended usage (f.e. giving diagnosis) you don't need certification

MEDICAL USECASES

SOME EXAMPLES

1) DIGITALIZATION OF THINGS

REHA & FITNESS



BALANCE BOARD

POWERED BY MOVESENSE INTELLIGENCE

BALANCE BOARD

POWERED BY
MOVESENSE INTELLIGENCE



Make your
training tools smart.

Let's start with your body
balance.



DROP JUMP TEST

POWERED BY MOVESENSE RSI DATA

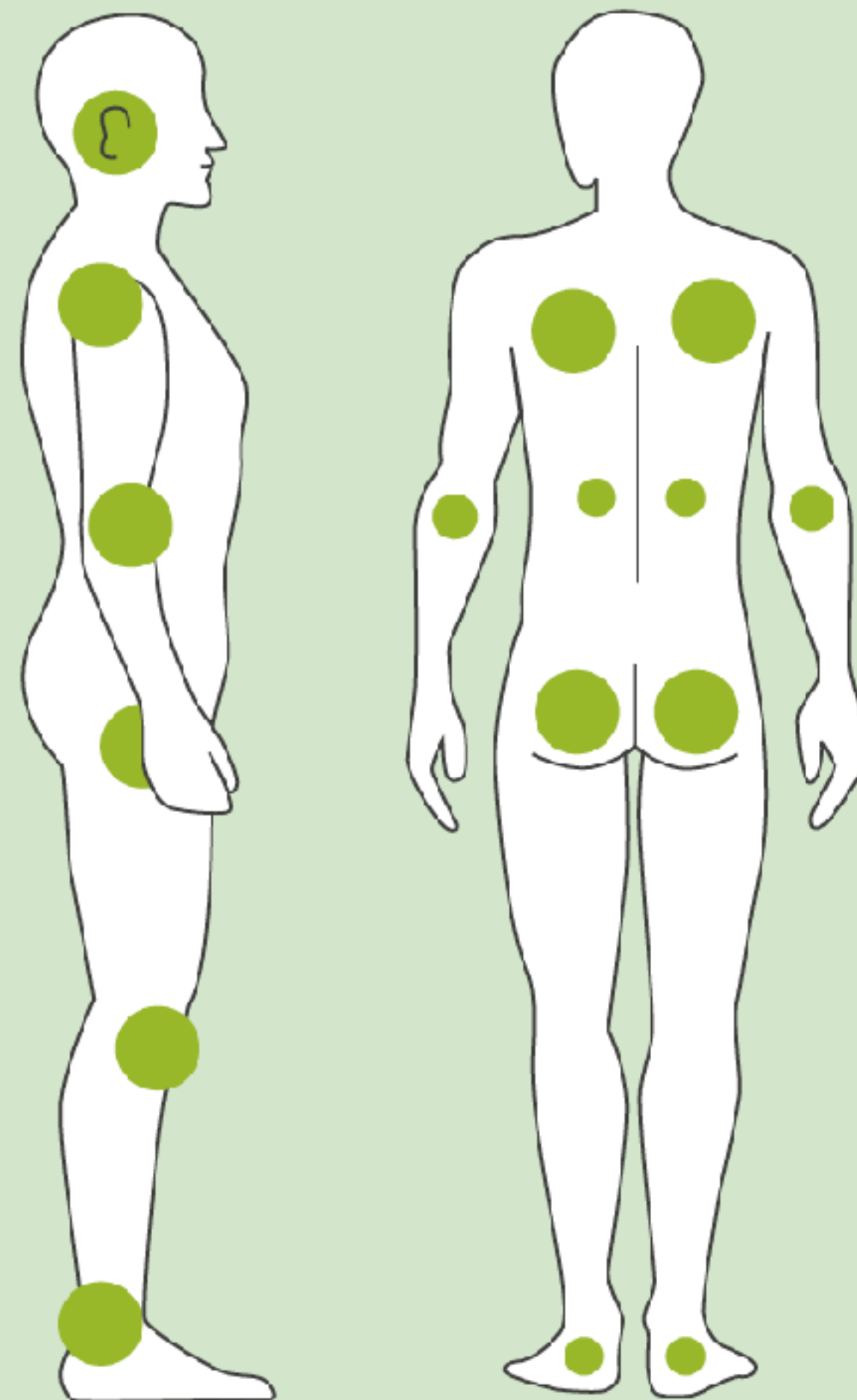
2) *PROPHYLAXIS USE CASES*

MEDICAL & CARE



STROKE PROPHYLAXIS

POWERED BY MOVESENSE ECG DATA



DECUBITUS PROPHYLAXIS

POWERED BY MOVESENSE

3) *VALIDATION USE CASES*

MEDICAL & REHA

VALIDATION USE CASES

- Control validations during brain surgeries vs. eye-controlled gold standard
- Range-of-motion analysis for orthopaedic usecases (f.e. checking driving competence, knee flexibility...)
- Neurological handicap analysis vs. manually-controlled (stop watch) or eye-controlled gold standards

4) KINEMATICAL VALIDATION FOR HANDICAPPED PEOPLE

BEYOND MEDICAL INTERESTS WE COME BACK TO SPORTS.



WHEELSPEED
POWERED BY MOVESENSE

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1 000 IDEAS.

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