

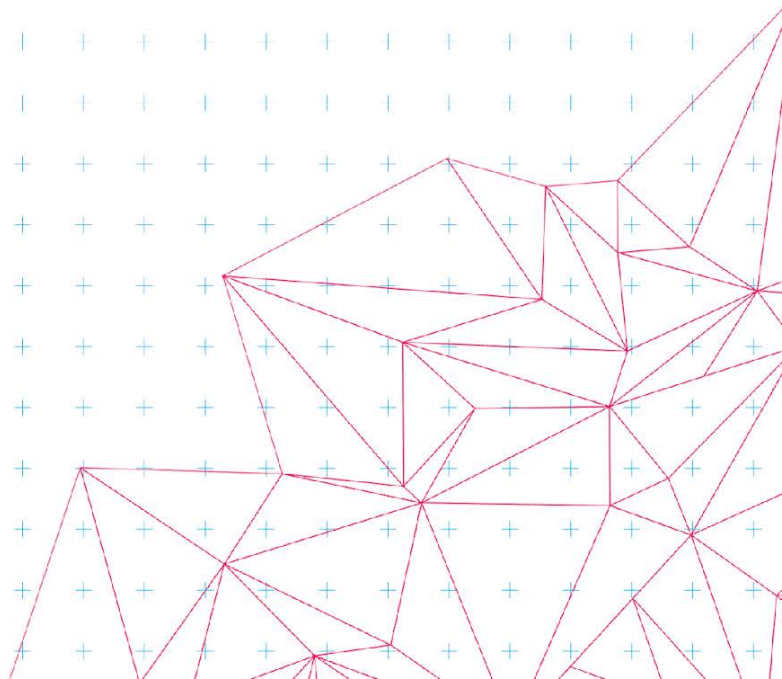
Challenge name	<i>Autonomous Training Assistant / Help creating the training assistant of the future</i>
Challenge owner	<i>PwC</i>
	X <i>Company</i> • <i>Research</i> • <i>Student team</i>
	<i>Gabriëlle Carol</i>
Brief summary	In the Netherlands more than half of all children do not have enough physical exercise. Besides, about 1 out of 10 are lacking financial means to participate in sport activities. For this reason, PwC is working on making tools available to improve sporting skills for all children in the Netherlands. In collaboration with HC Den Bosch, dive into if and how video analysis techniques can be used to tackle performance and societal challenges, related to field hockey!

About the challenge owner

As PricewaterhouseCoopers (PwC), we describe ourselves as a community of solvers, combining human ingenuity, experience, technology, and products to help organisations build trust and deliver sustained outcomes. We operate in 158 countries with over 250 000 employees. In the Netherlands, we have over 12 offices and 5500 employees. We offer Audit & Assurance, Tax & Legal and Advisory services in very broad topics, ie. M&A, Technology, Data Analytics and Supply Chain & Procurement. At PwC there is a very broad range of competences where everyone has their own expertise. Working in multi-disciplinary teams with different skills, studies and capabilities on important problems, makes your work very diverse and challenging, every day.

In the Netherlands many children unfortunately do not have access to proper sporting facilities which does not give them the opportunity to do and develop themselves in the sports they like. For this reason, PwC is working on making tools available to improve sporting skills for all children in the Netherlands, especially for those who cannot afford it. Many children will benefit from this, allowing them to improve and enjoy their sporting skills. More children will have

the chance to improve and thus sport clubs will have a larger talent pool to choose from - and can save on training costs. By solving this problem, we are one step closer to enabling good health and well-being - one of the sustainable development goals of the UN.



Challenge description

In the Netherlands more than half of all children of 4 to 12 years old do not have enough physical exercise, according to CBS. Moreover, in 2012 11% of all children in the Netherlands were lacking the financial means to participate in sport- or cultural activities. One of the sustainable development goals of the United Nations is to enable good health and well-being, naturally practicing sports is essential for reaching this goal.

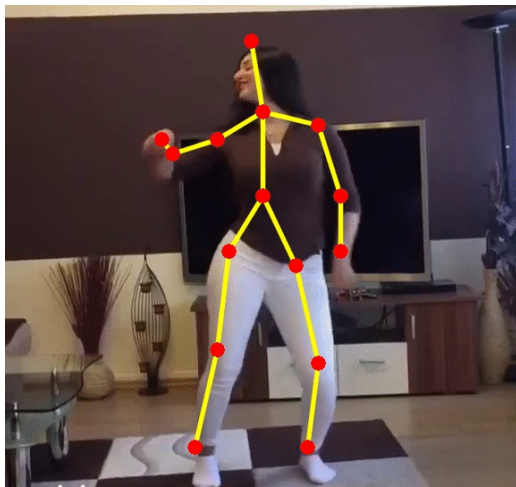
To tackle this problem PwC is providing you this challenge.

By making use of image analysis techniques, you will get a chance to create a solution to motivate sport players and help them to improve their technique. For example, you could use AI techniques to create a virtual training assistant. By these means, we aim to enable kids without the financial means to be able to practice sports, help current players to improve their technique, and provide unique insights not easily recognizable by the human eye. As part of this, you will also develop a business case to roll out your idea and bring it to the people in need. At the end of the event a pitch will be given by all teams and a jury will decide on the best solution presented.

By solving this challenge, we are one step closer to enabling good health and well-being – one of the sustainable development goals of the United Nations.

Challenge Picture





Input and involvement of challenge owner

By solving this problem, we can offer all children an opportunity to improve their sport skills, and thus sport clubs will have a larger talent pool to choose from. By solving this problem, we are one step closer to enabling good health and well-being – one of the sustainable development goals of the UN.

Resources

What resources are necessary for the students to work on the challenge?

- For the Hackathon, some data science knowledge
- A computer

What resources do you offer to students?

- ~~X~~ Expertise; Experts from DA and SCM
- ~~X~~ Materials; video database of hockey players
- ~~X~~ Workplace; PwC office once a month

• *Other; ...*

