

In order to create change
you need to direct your energy
correctly

Sharpen your pencils through gaming



Casper Bodewitz: energy professional with a passion for gaming

Who am I?

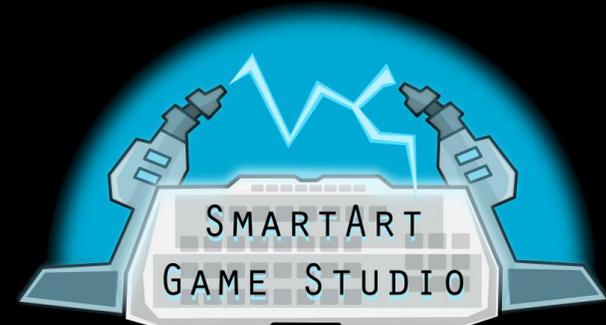
IT & Energy consultant

- Architect of IT landscapes
- Implement IT security
- Go-Live management for (European) market changes

Game producer

- Produce real-time strategy games
- Design gaming platforms
- Create challenging computer opponents that play intelligently

Paatz | Scholz | van der Laan
Nederland



Energy professionals face challenges

- Learn about complex environment:
 - Energy mix (gas as transition fuel)
 - Regulatory dynamics (e.g. REMIT)
 - Increasing market liquidity (NBP, TTF, etc.)
 - Up/mid/down stream (where's the margin)
- Scenario thinking skills are crucial:
 - Changing climate
 - 2020 goals
 - Alternative energies and base load capacity
 - Decentralised energy production

What learning tools are available

- Books, video's, blogs
- Interacting with peers (e.g. through seminars and conferences)
- Specialised energy courses

- **Playing games?**

Why do people play games?

- Play is spontaneous and voluntary
- Players are more engaged with what they do
- Play can involve an element of make-believe
- Play doesn't require extrinsic goals; there is no prescribed learning that must occur
- Learn from enjoyable experiences



Cain's arcade

How is gaming changing the world?

Becoming the biggest entertainment industry

- Turnover of \$100 billion*
- Estimated 1 in 6 people plays games*



Serious and applied gaming (e.g.):

- Teach surgeons laparoscopy
- Physiotherapy enhancements
- VR safety instructions



* Source statista.com

What a game should have

Emotion

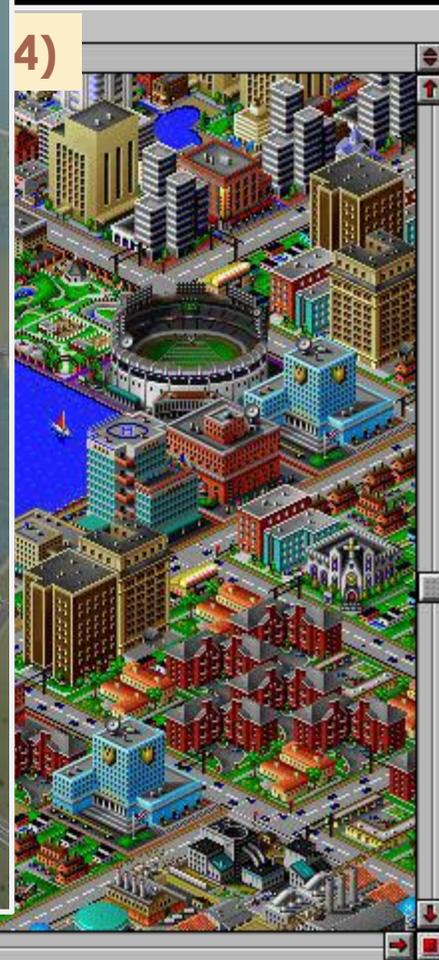
Decision making

Risk & reward

Tension

Civil engineering simulation games

City Skylines (2015)



What is it good for?

- Learn about:
 - Traffic planning
 - Utility infrastructure
 - Educational and social development
 - City economics
- Scenario thinking:
 - Deal with natural disasters
 - Deal with neighbouring cities
 - Transition rural communities
 - Accommodate regional projects
 - e.g. interstate highways

So, why more gaming?

**Sharpen your pencils
to draw solutions
for real world problems**

Make playing games part of training



Thank you

Questions?



Casper Bodewitz

IT & Energy Specialist / Game Producer

Phone: +31 6 3494 2922

Email: casper.bodewitz@psvdl.com / casper@smartart-gamestudio.com

Web: www.psvdl.com / www.smartart-gamestudio.com