BIM and buildingSMART

BIM and automated rule checking workshop, May 2011

Håvard Bell
Lars Bjørkhaug

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Catenda AS

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- Spun out of SINTEF Building and Infrastructure

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- Expertise on implementation of BIM and buildingSMART

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  - Technology and process

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  - Knowledgesearch, BIMserver

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- Spun out of SINTEF Building and Infrastructure
- Expertise on implementation of BIM and buildingSMART
  - Technology and process
- Deliver software solutions based on buildingSMART
  - Knowledgesearch, BIMserver
  - Soon: QA of BIM, including rule checking

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it’s all about information

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こうやって新聞を読んでいるように見えて

実はiPad

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it’s all about communication

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it’s all about communication of information

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not too long ago...

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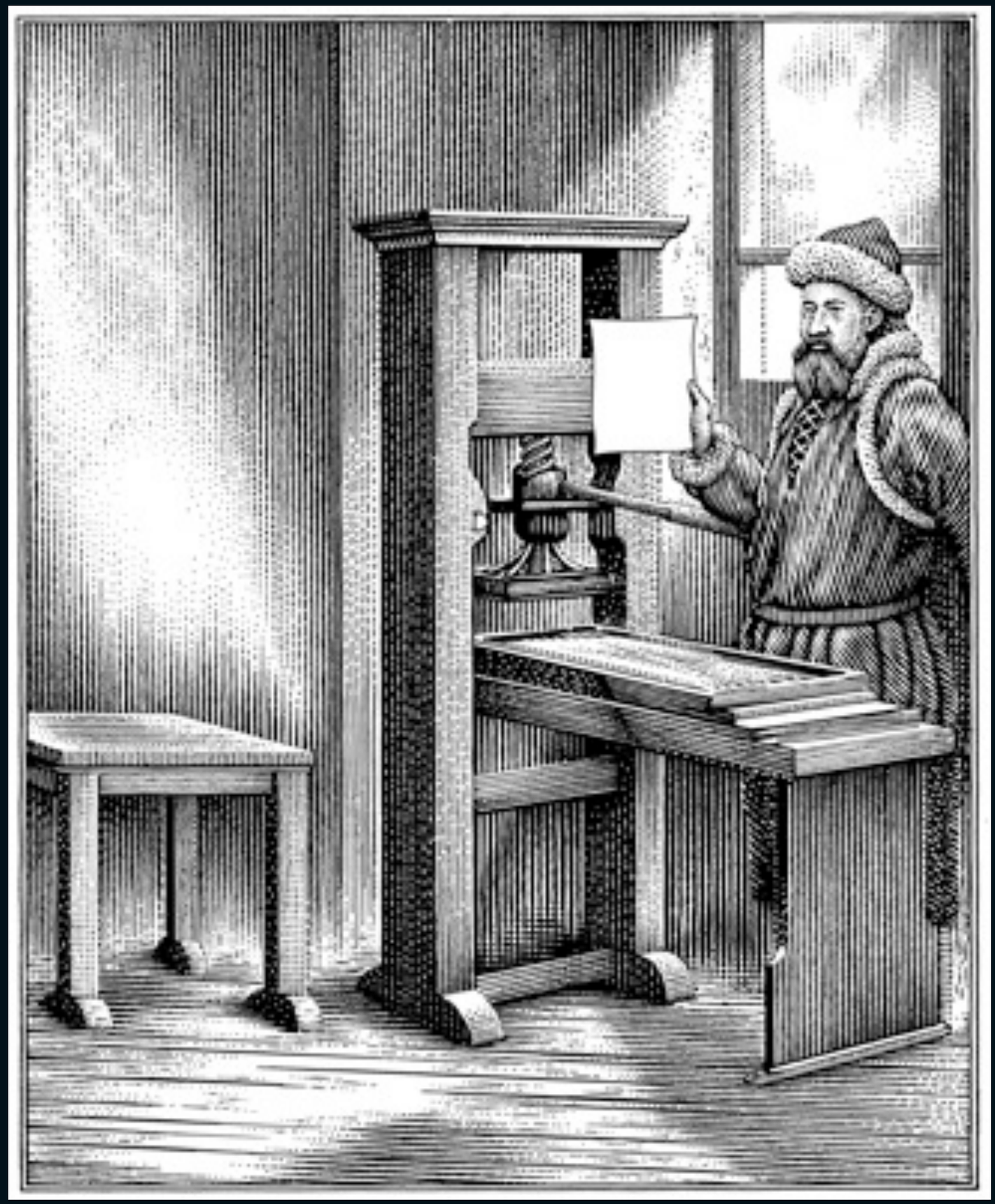

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4 3
5 2
6 1
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8 9 0
4 3
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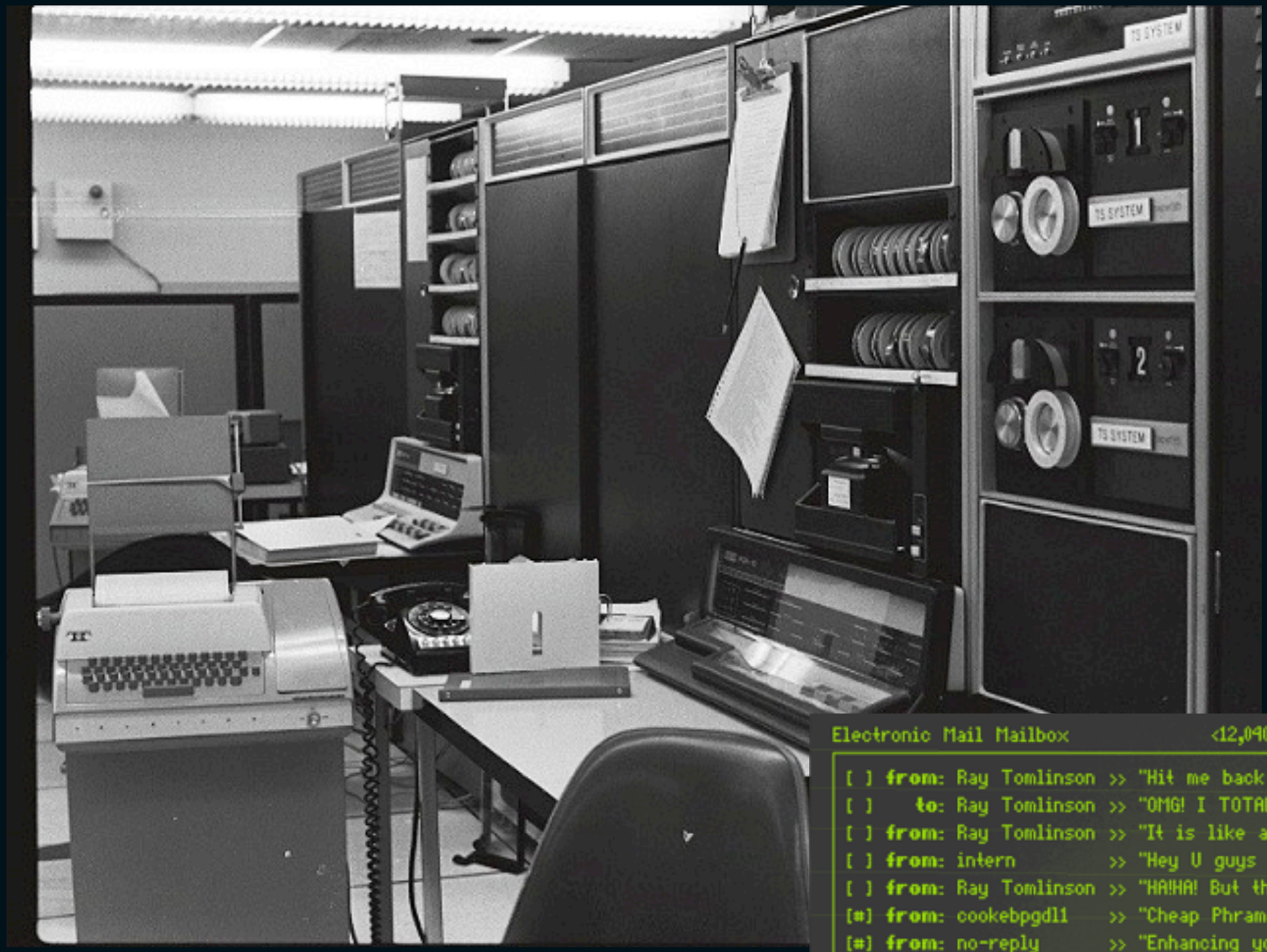
hp fax 1010

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Electronic Mail Mailbox                <12,040> NEW ELECTRONIC MAIL MESSAGES!

[ ] from: Ray Tomlinson >> "Hit me back if you get this."
[ ]   to: Ray Tomlinson >> "OMG! I TOTALLY DID! WHAT IS THIS?"
[ ] from: Ray Tomlinson >> "It is like an electronic version of mai..."
[ ] from: intern        >> "Hey U guys need 2 see this funny kitte..."
[ ] from: Ray Tomlinson >> "HA!HA! But that's really not what this is..."
[#] from: cookebpgdl1   >> "Cheap Phrama Only Today! \/|/\\G,|</\ !!!!!!!"
[#] from: no-reply      >> "Enhancing your rod will be the best wa..."
[#] from: real mom      >> "Local mom makes $22.80 in ONE WEEK!! "
[ ]   to: Ray Tomlinson >> "What's going on?"
[ ] from: Ray Tomlinson >> "I'm not sure. I can't stop it. :("
[ ]   to: Ray Tomlinson >> "HA! That looked like face frowning side..."
[#] from: eqefq sweik   >> "Be a sperm-man with Shitloads of Sperms!"
[#] from: cialis4cheep  >> "you p3ni$ will be very gratefull!!"
[ ]   to: Ray Tomlinson >> "I hate you."
[ ] from: Ray Tomlinson >> "I hate me too."

[O]pen [N]ew [M]ark as delicious meat                1971-09-16T23:59:58.75
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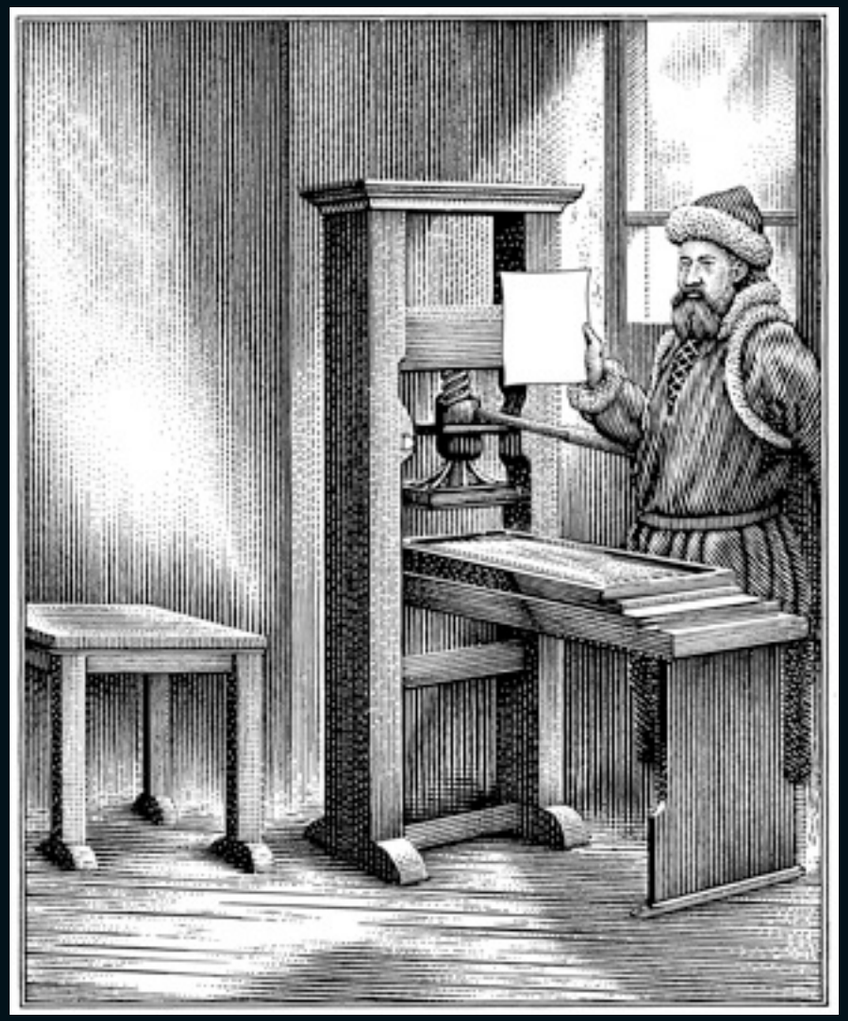
P:2/2
L:2/3
01'39"12



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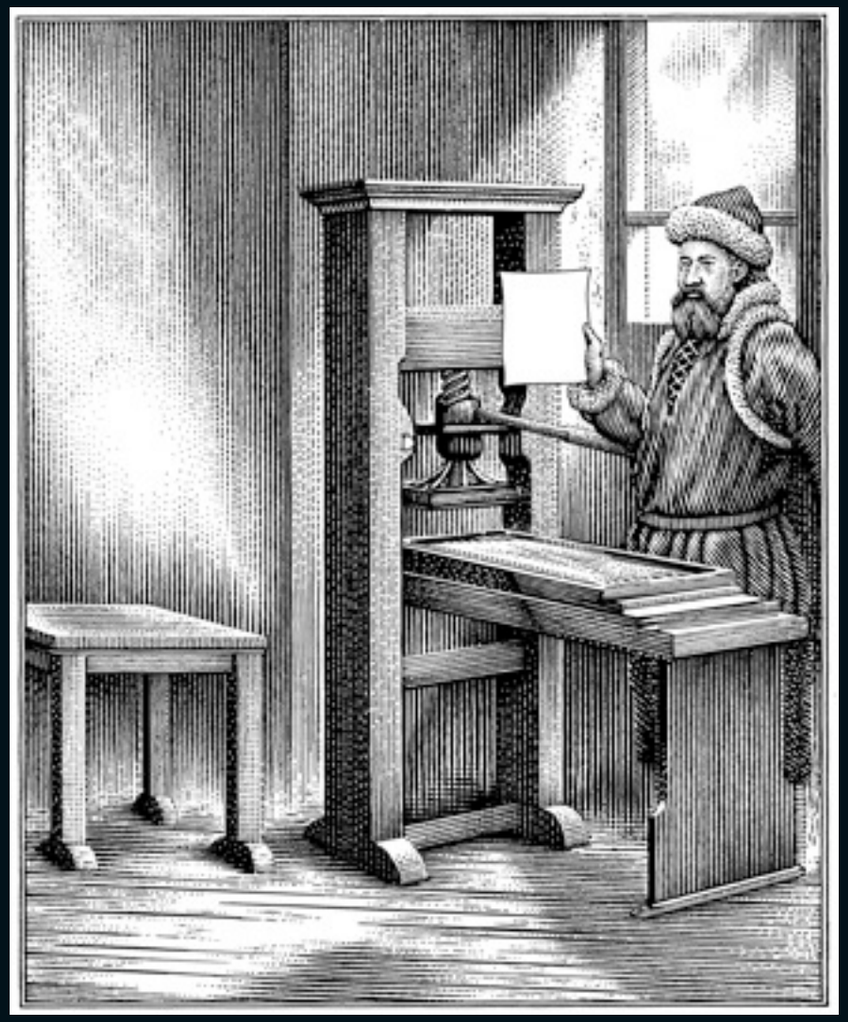

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progress in the construction industry

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!

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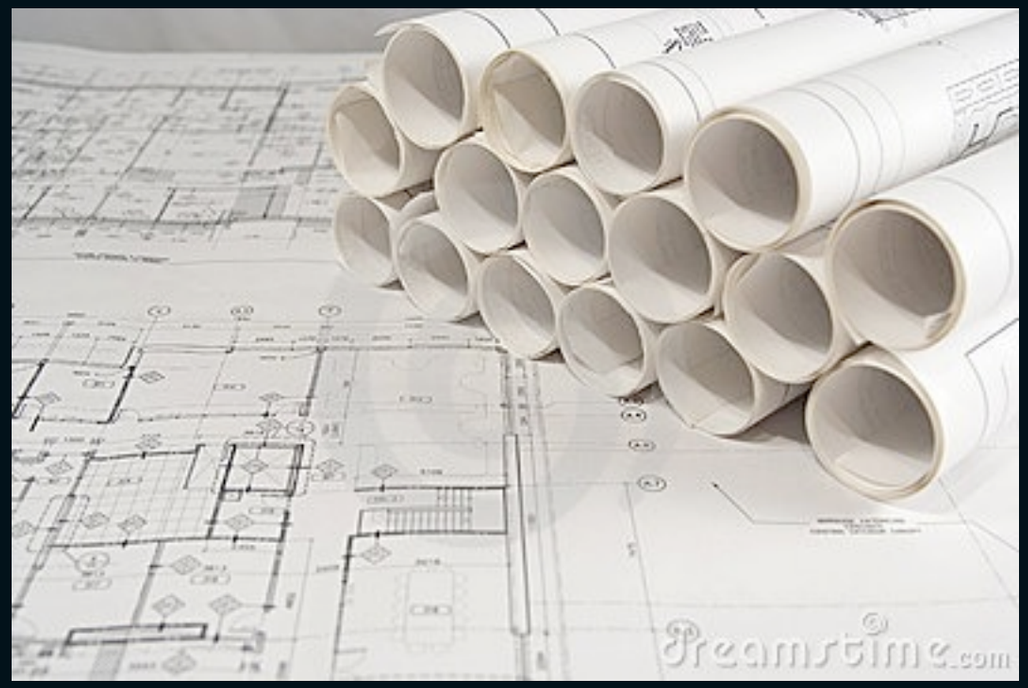

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HITACHI

DEWALT

there is hope...

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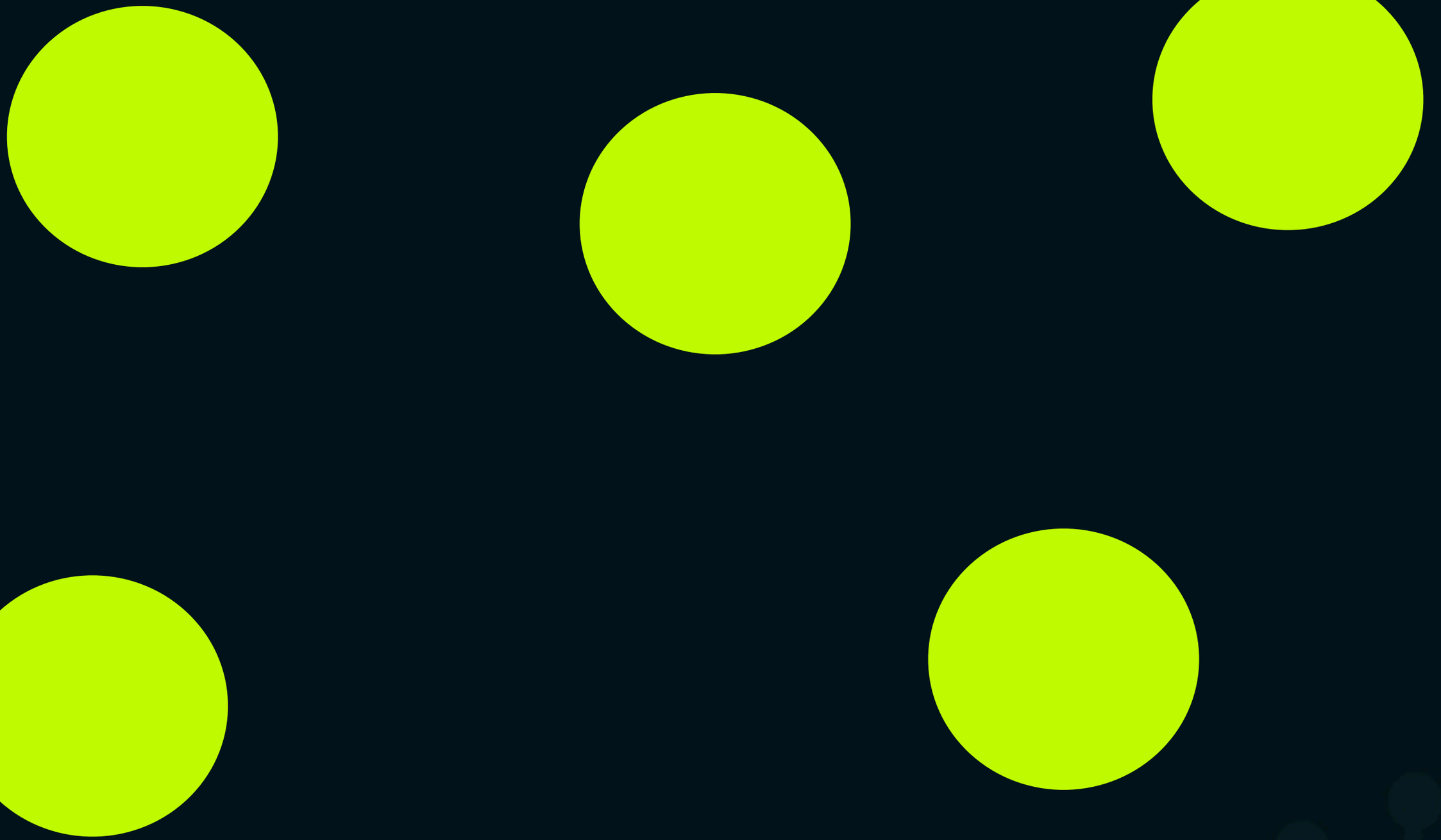

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open international standards

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buildingSMART

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BIM

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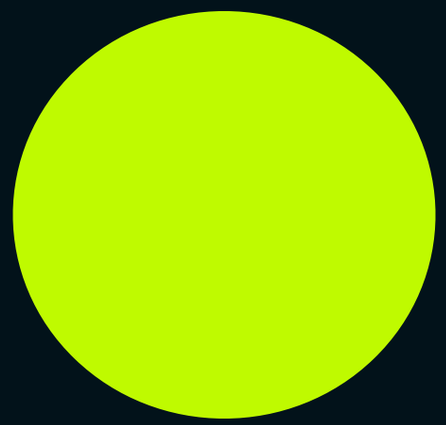

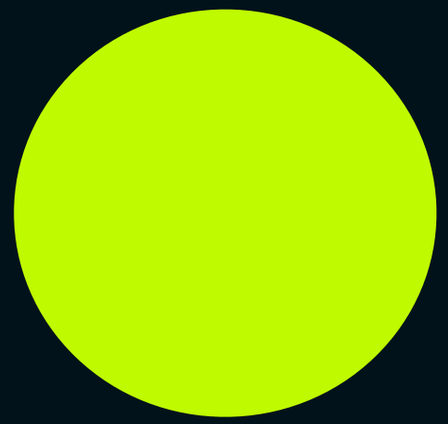

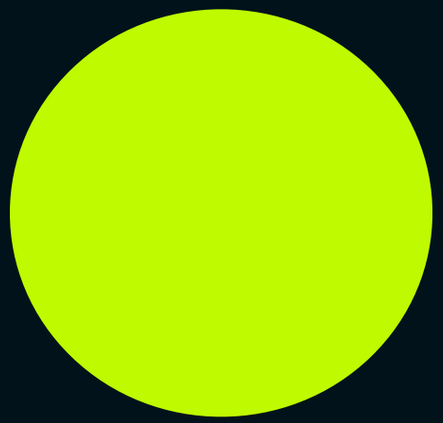

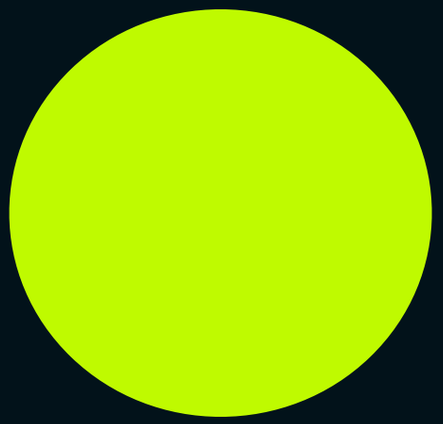

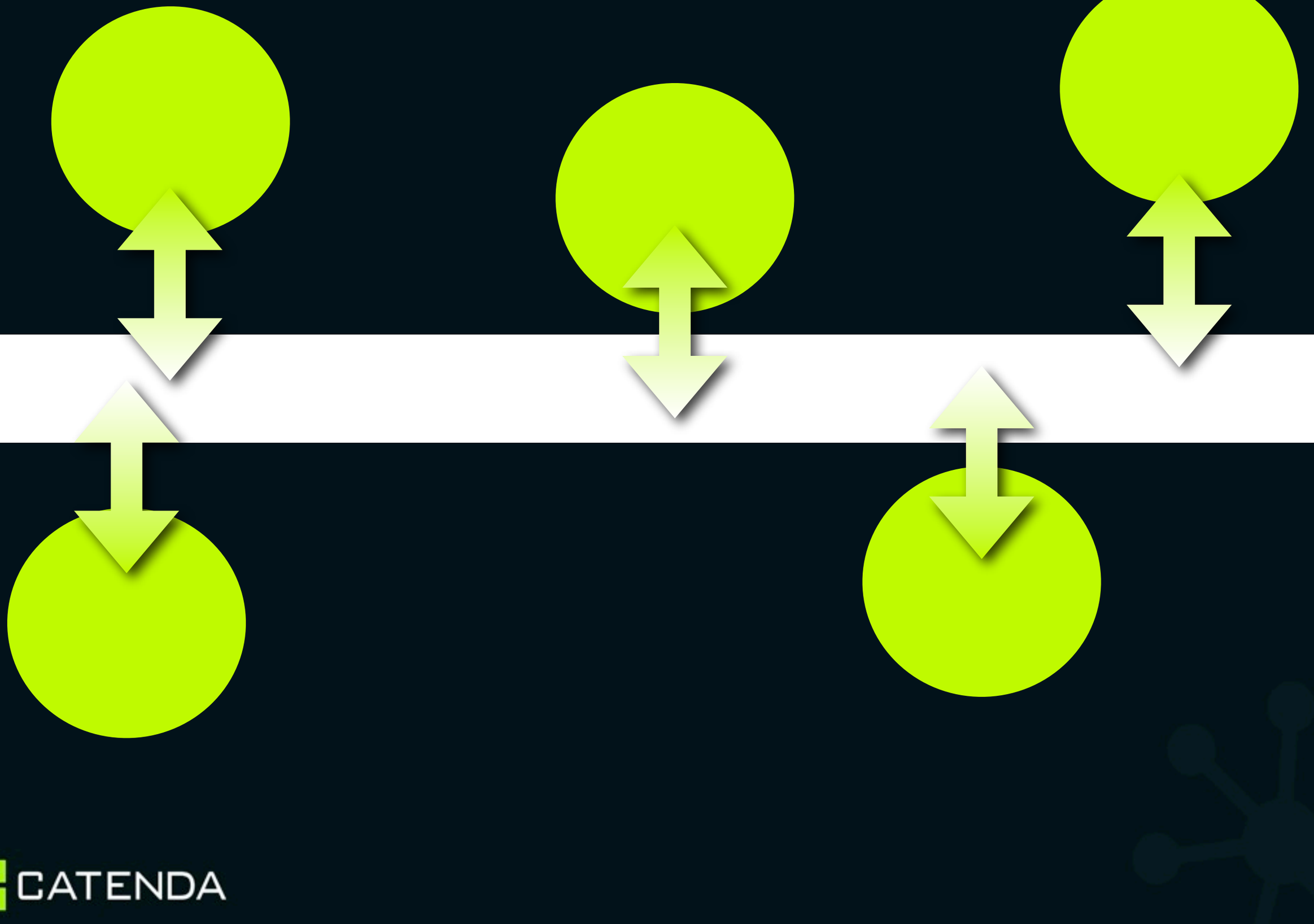

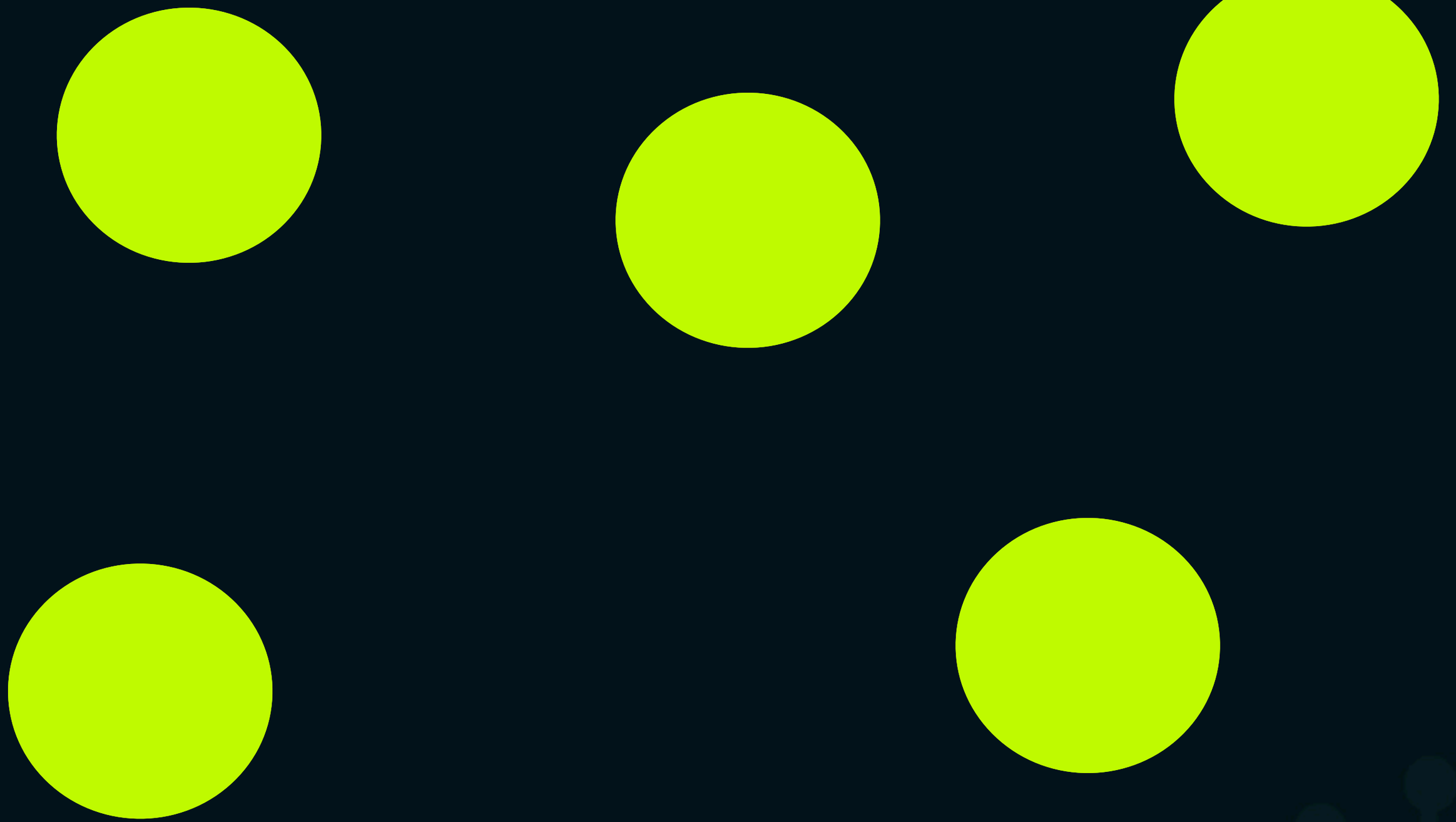

build coolingroom

cooling device on roof

minimize technical room

easy maintenance

ensure heating

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build coolingroom

cooling device on roof

minimize technical room

easy maintenance

ensure heating

build coolingroom

cooling device on roof

minimize technical room

easy maintenance

ensure heating

build coolingroom

cooling device **yield heat**

minimize technical room

easy maintenance

ensure heating

build coolingroom

cooling device **yield heat**

optimize technical room

easy maintenance

ensure heating

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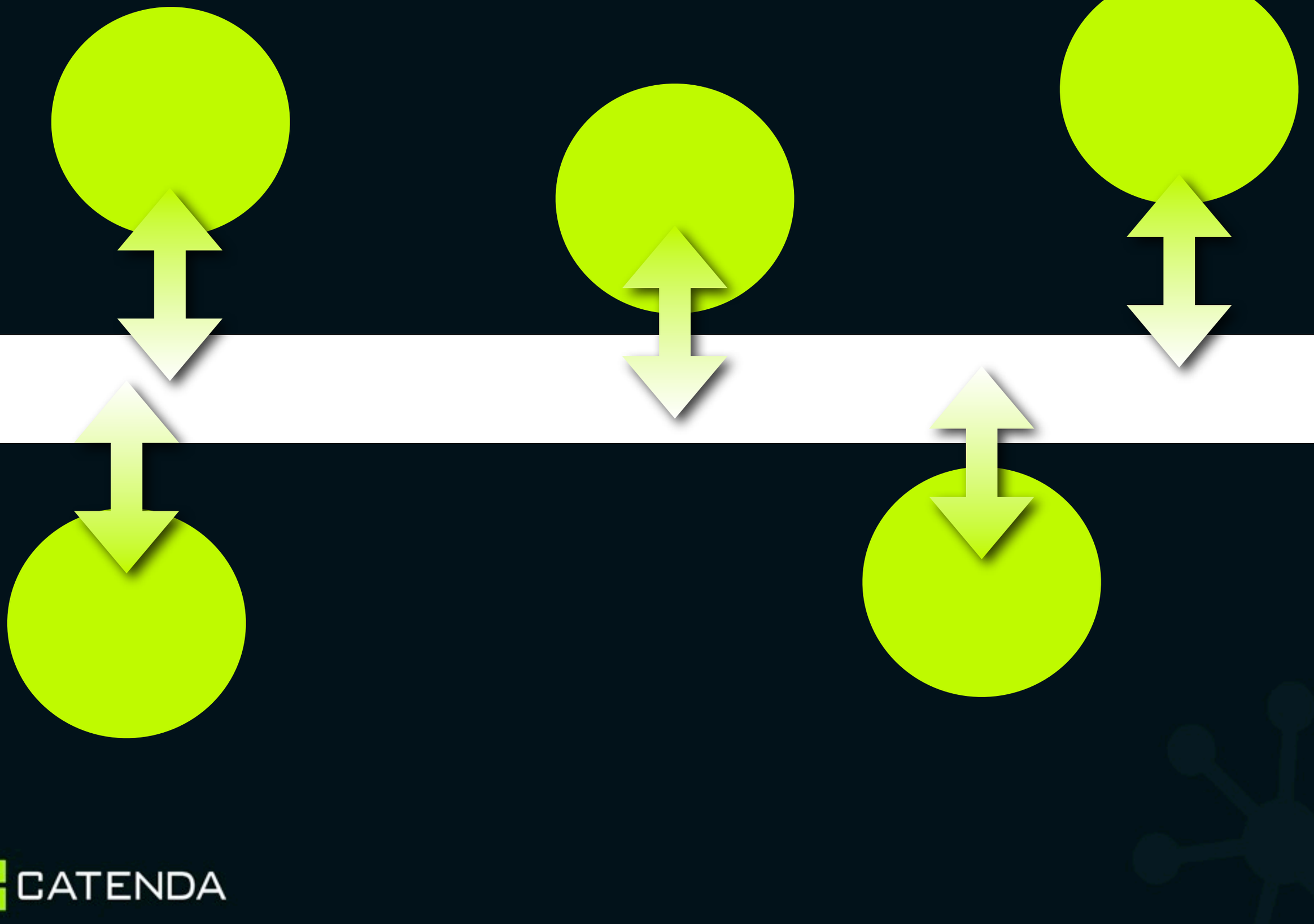

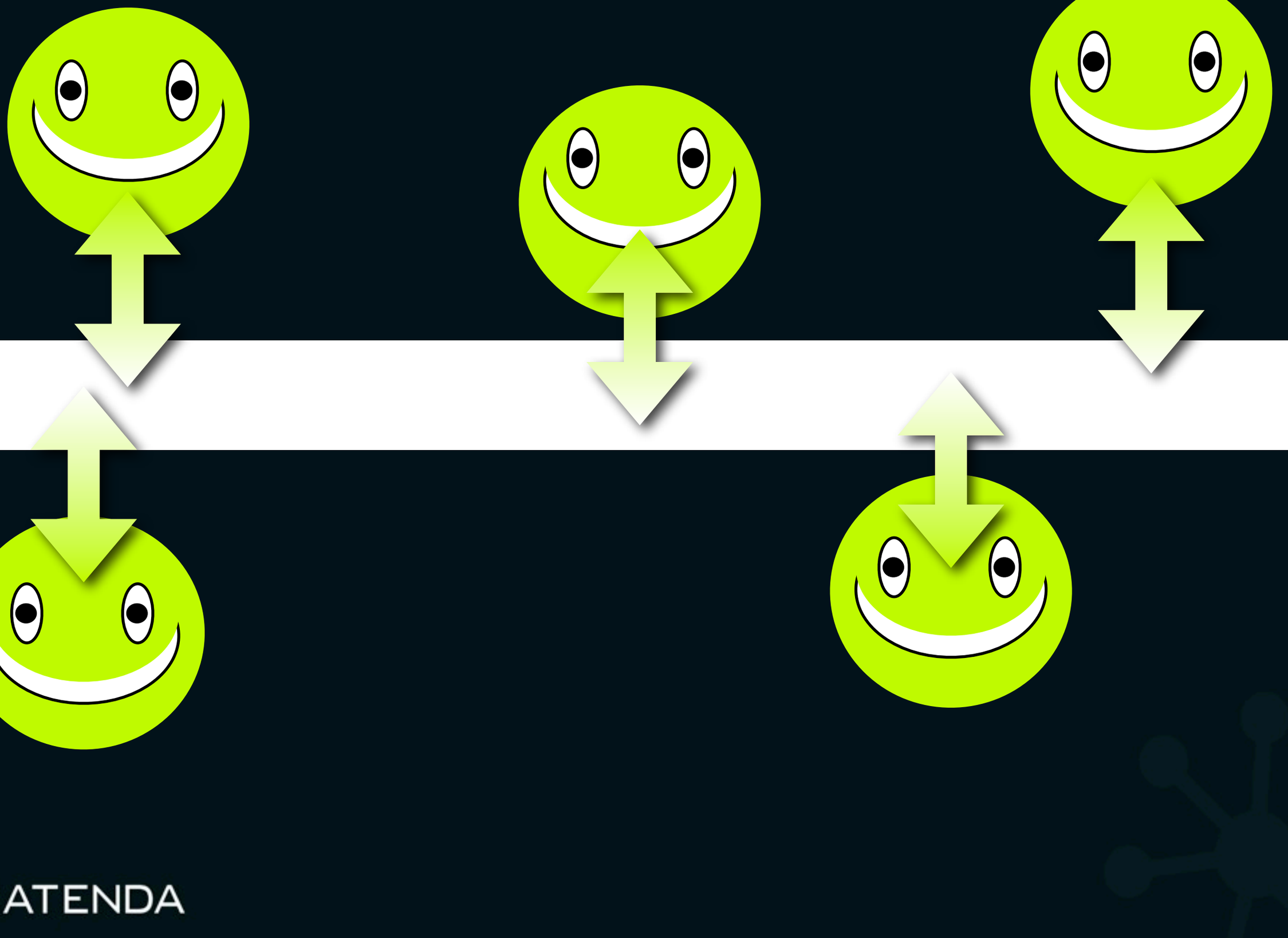

eco analysis

energy analysis

climate analysis

lifecycle analysis

safety analysis

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regulation check

internal check

user check

green check

information check

CATENDA

project manager

owner

user

maintenance

cleaners

Largesoft

Smallsoft

Your own

Gina, 13 years old

Mediumsoft

revolution

paradigm change

internet

revolution