





About the speakers

Arjan Peeters - BIM nerd & smartass



Official title: Manager
Virtual Construction. Has
a track record working for
Architects, contractors
and engineers. Amateur
Coder.





About the speakers

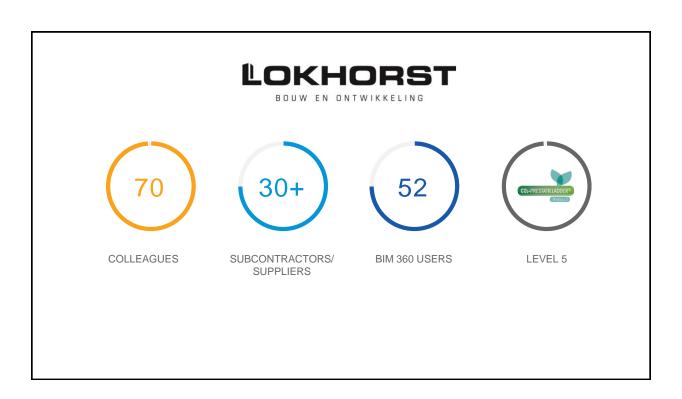
Steffan van Leenen – Virtual Constructor



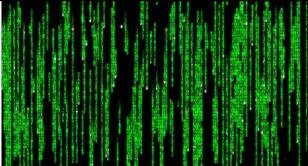
Focusing on digitization of the construction site by implementing BIM 360 in our workflows.

Contact info









What are we going to show you

First Part

Certificate of completion with BIM360

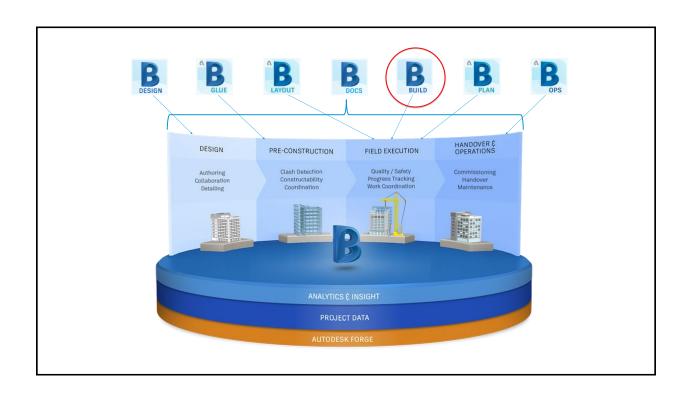
- · What is BIM360 Field / Build
 - What is the problem?
 - Old situation
 - New situation
 - Conclusion

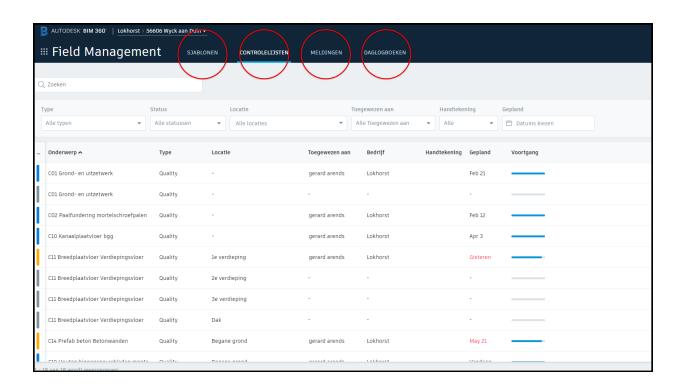
Second Part

Analyzing our own BIM360 data

- · Our safety inspections
- Autodesks API for BIM360
- · Show case what to do with the api
- Conclusion

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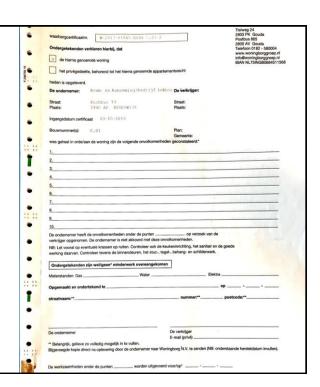


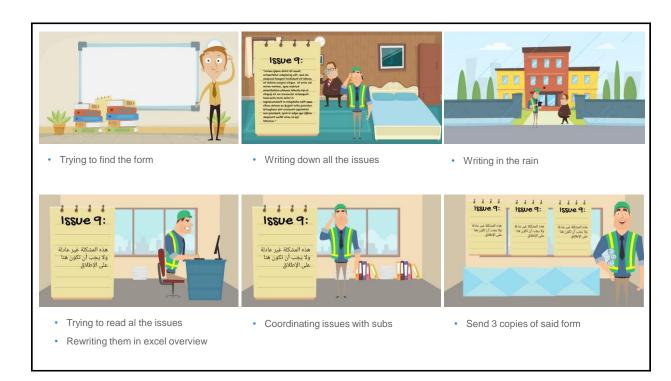
So, what is the actual problem?

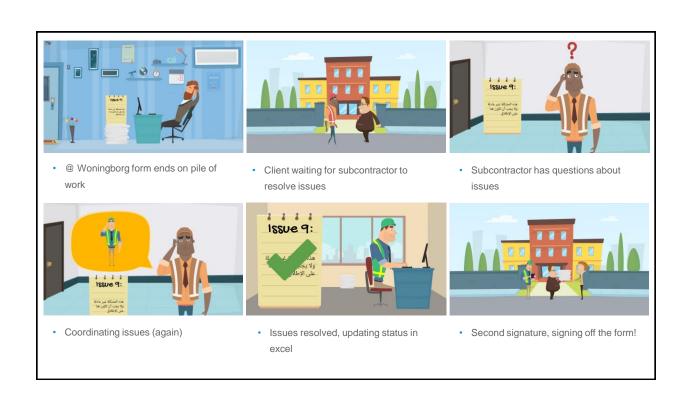
Certificate of practical completion

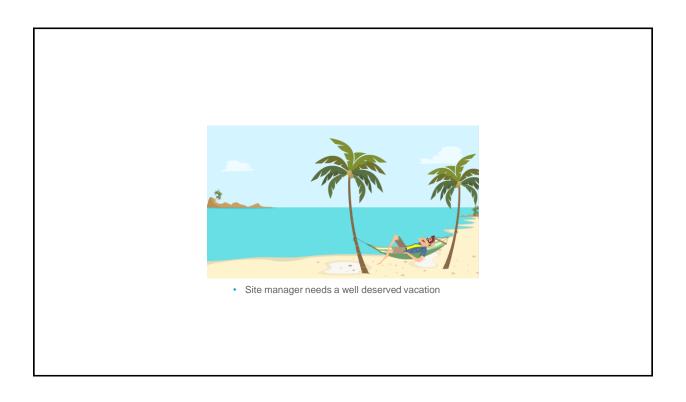
Disadvantages:

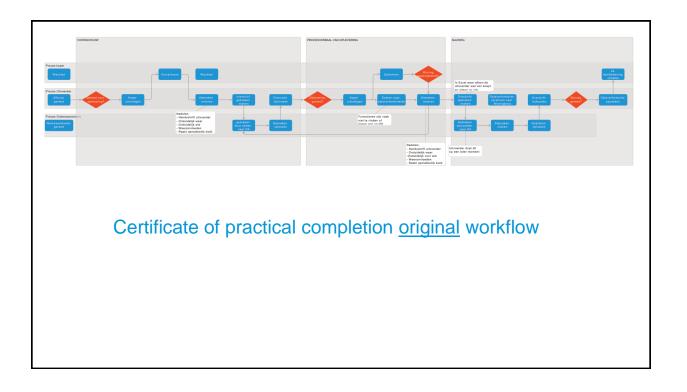
- · Forms were at the office
- · Not enough space to be specific
- · Not more then 10 issues
- No space for subcontractors
- Forms got lost
- · Handwriting construction manager
- · Forms had to be scanned and archived











Certificate of practical completion original workflow

Preview
Delivering
Aftercare

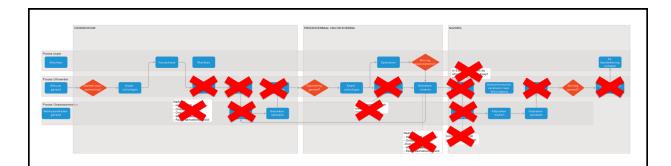
Steps are inefficient tasks like searching for documents, make overviews, etc

Delivering
Aftercare

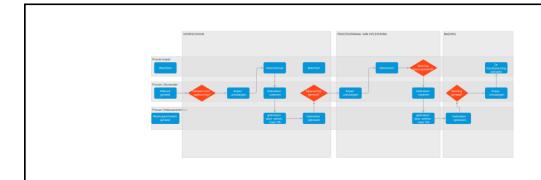
Steps are inefficient tasks like searching for documents, make overviews, etc

Excel sheets for each subcontractor, overviews, scanned documents

Stagering amount of phonecalls and e-mails

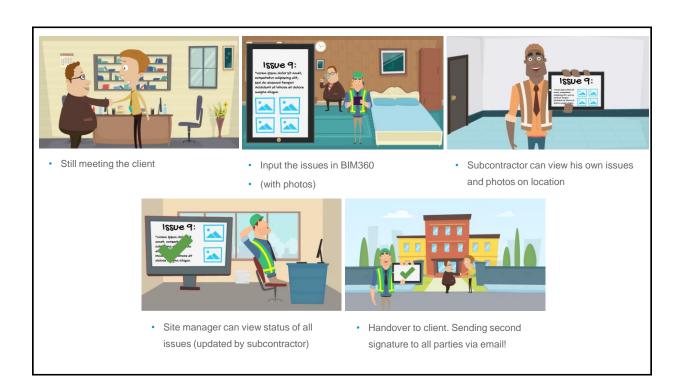


Certificate of practical completion original workflow

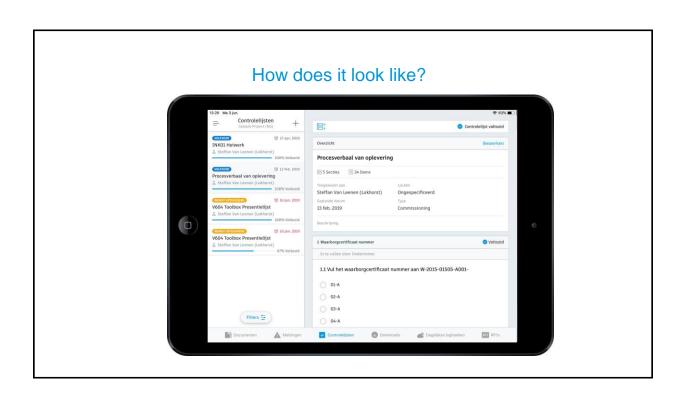


Certificate of practical completion digital workflow





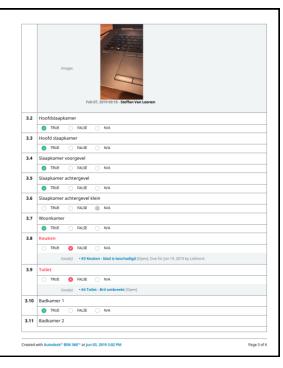




Certificate of practical completion

What do you get as a client?

- One form
- Every single issue
- Photos of the issues
- Location of the issues
- Signed form



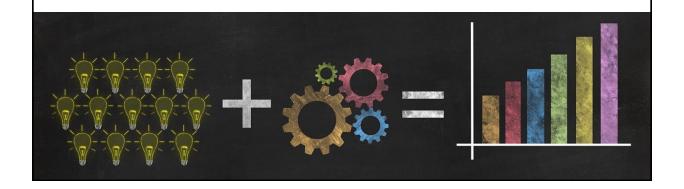


Lessons learned

- 1. I Let my colleagues 'hang out to dry'
- 2. Don't implement a template and override the existing one
- 3. Don't use different systems
- 4. Don't give subcontractors access to the system without instructing them

But we improved!

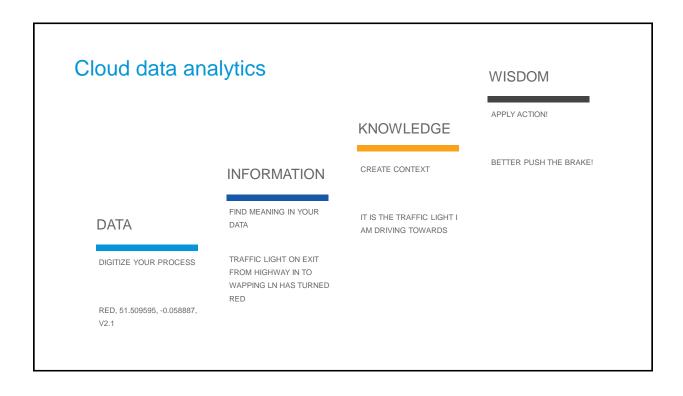
- 1. Internal training
- 2. Hand-outs and videos
- 3. Subcontractor contracts

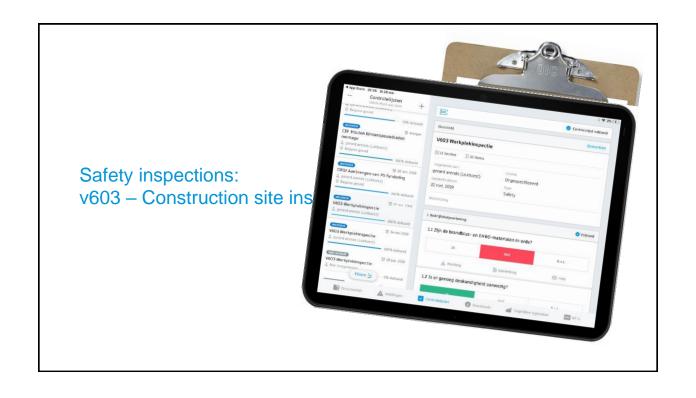


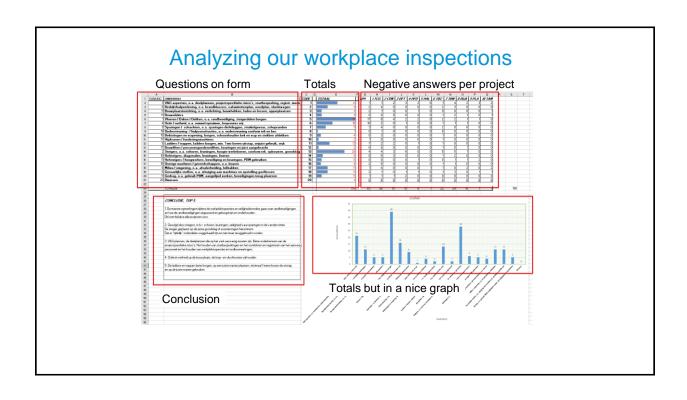


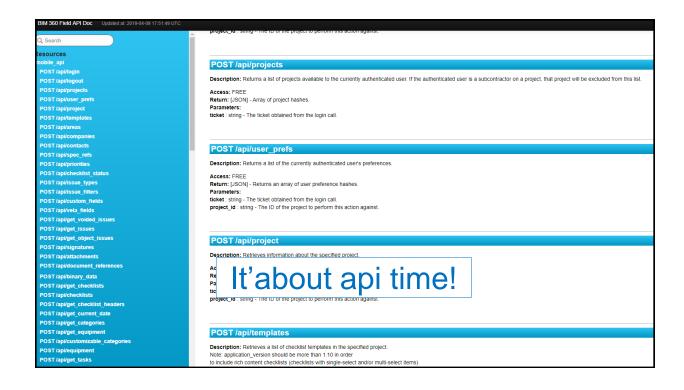
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Type this code









```
self.logdupes = True
Code used:
                                                                         self.debug =
                                                                         self.logger
                                                                             path:
                                                                                37
                                                       38
· All Python, with modules:
                                                        39
                                                                                self.fingerprints.
   o Flask / jinja2 (website)
                                                        40

    Wtforms (webforms)

                                                        41
                                                                      def from_settings(cls, settings)
  debug = settings.getbeel('burn
  return cls(job_dir(settings))
                                                                      @classmethod
   o Requests (cURL requests)
                                                         42

    Urllib (for building get/post urls)

                                                         43
                                                         44

    Pandas (data analytics)

                                                          45
                                                                       def request_seen(self, request):
    fp = self.request_fingerprints;
    if fp in self.fingerprints;
        return True
   o BIM360 module (my own brew)
                                                          46
                                                           47
· Resources used:
                                                           48
                                                           49
   o Developer.Autodesk.com
                                                                               self.fingerprints.add(fp)

    Codecademy

                                                                               if self.file:
                                                                                     self.file.write(fp + cs.limesam)

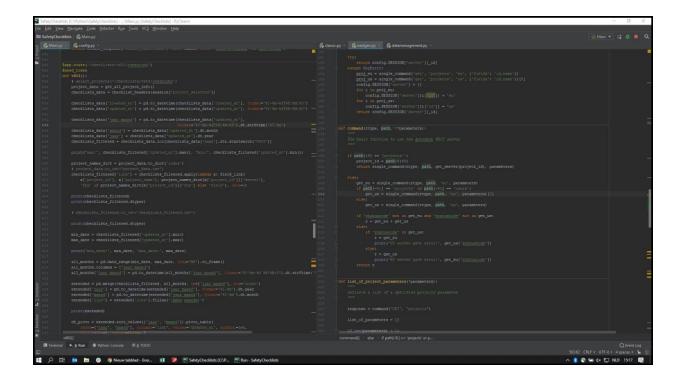
    Google

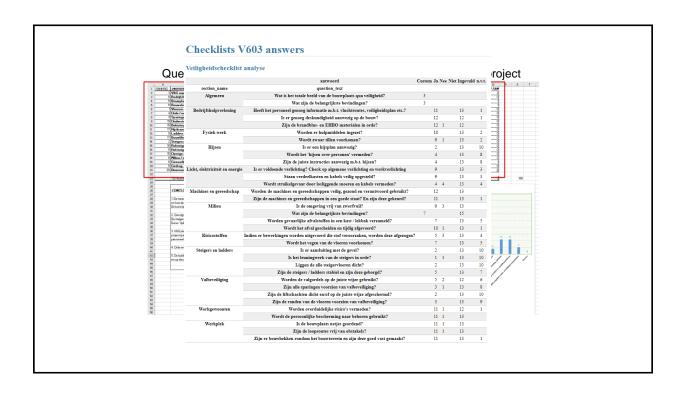
                                                                          def request_fingerprint(self, request):

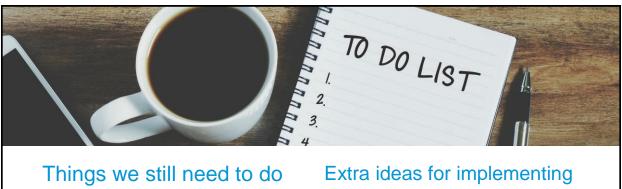
    Stack overflow

    Github

                                                                                     request_fingerprint(req
```







· Get the site in a production enviroment

- Get our collegues on site to use it more

- · Track total number of issues per home.
- Track Toolbox meetings
- · Incident forms
- **CEO** inspections
- Kickoff meetings checklists
- Extra Quality checklists



Conclusion

- · Workflow is a lot shorter
- · More overview with less work
- By leveraging the API you can get extra analytics on your data
- We are not there yet, but getting there.
- More attention to culture and training employees
- More attention to communication with partners

Feedback

Give us your feedback in AU app



