



Take your
site management
to the next level



Timo Makkonen CEO & Co-Founder

"Our mission is to change the construction industry quality culture towards transparency and collaboration."

What is Congrid?

- Service provider for construction site quality and safety management
- Founded 2013 by construction professionals
- Mission to change the construction industry quality culture
- We want to encourage an open culture where everyone is engaged
- Widely used in Finland by contractors and projects



Why Congrid

- People are too busy to stop and think how to improve practices
- Data driven approach gives possibility to improve and learn
- We cannot learn if we don't have proper data
- Structured data and templates enable companies to harmonise operations
- Time is valuable on all size of projects
- Quality is everyone's business

Challenges

- Culture "we've always done like this"
- Digital tools are used to replicate the analog process
- Company willingness & lack of leadership to change the culture
- Suspicions against technology
- Siloed data



Construction work fully documented

Everyone committed, Transparency across all parties



Construction projects lifecycle with Congrid

How we can help

Planning phase

Construction phase

Maintenance phase / Renovations

01 Planning
Design comments & RFI's



02 Construction
All quality and safety management in one platform



03 Repairs / renovation
According to company process,
previous data available to support



04 Facility management
All data available



Quality and safety in one platform

- Congrid collects all quality and safety related data in one platform.
- Data is easily accessible and available throughout the lifecycle.
- Stakeholders can have different views and each owns their own data.

Task planning and follow up

All data available and linked for the different phases



Project personnel time paradox



The amount of office work on construction sites keeps on growing



Site managers and supervisors should spend time on-site **not** at the office.

How we can stop putting out fires?

Can we do something differently?

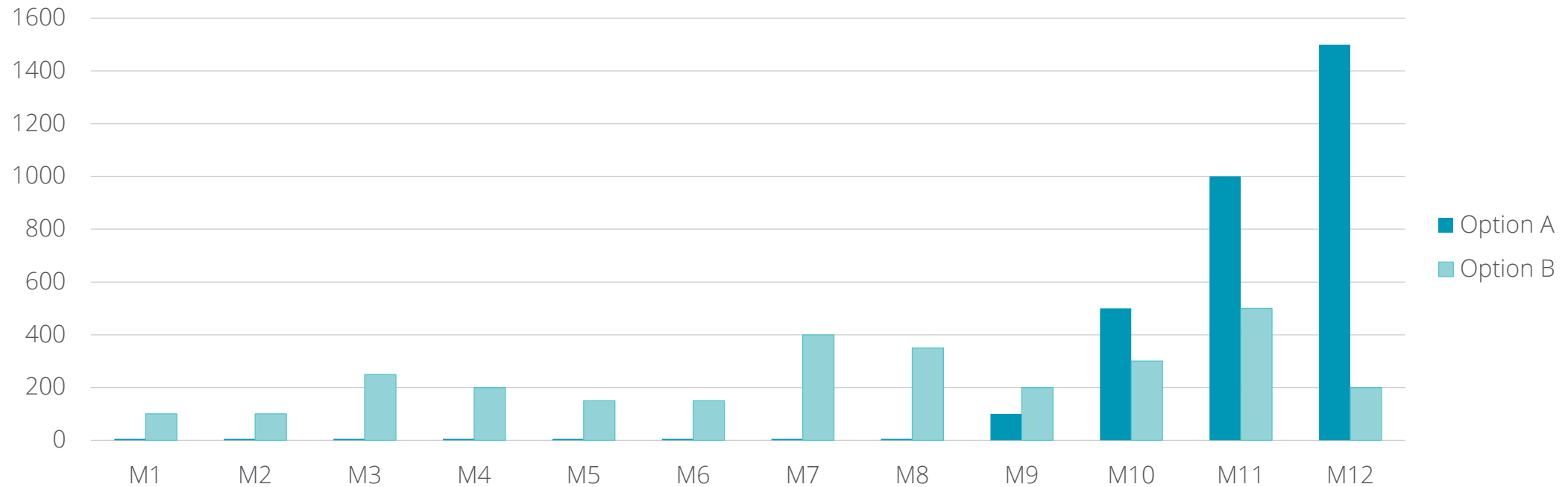
Should quality be everyone's responsibility?

Can we rethink our current ways to work?

Option A – check defects at the end → total of 1500 open issues at the end

Option B – follow and correct defects during the project → ~100 open issues at the end

Amount of recorded open issues during 12 month project



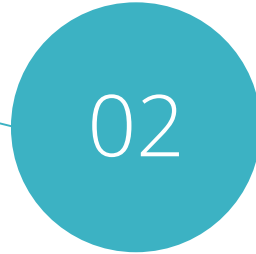
Quality assurance

Collaboration with Congrid

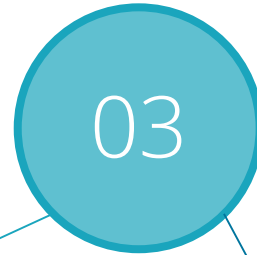
Clear overview of the quality control plan



Responsible contractor documents his own work with photos onsite



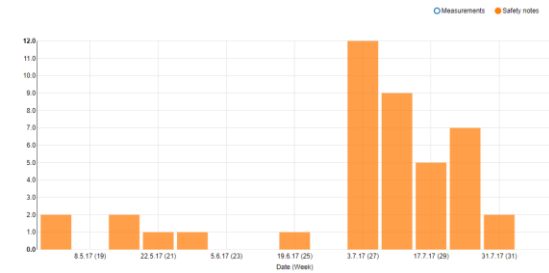
Supervisor accept the work when issues are corrected



Measurement / inspection details	Status	Note status
Quality inspection 10: 2 Indoor works / Work start, Building 1, A-Segment, 1st floor, Acceptors: timo, Participants: olli	✓ Complete ✓X	Waiting to be fixed (1) (1)
Quality inspection 9: 1 Structure / Acceptance, Building 1, A-Segment, 2nd floor, Acceptors: John, Participants: Timo, Olli	✓ Complete ✓X	Waiting to be fixed (1) (2)
Quality inspection 8: 0 Foundations / Work start, Building 1	⊖ Pending	✓ Problems fixed
Quality inspection 7: 1 Structure / Work start, Building 1, A-Segment, 1st floor, block A	✓ Accepted ✓X	✓ Problems fixed

Company wide statistics available for learning

Safety notes weekly at company level

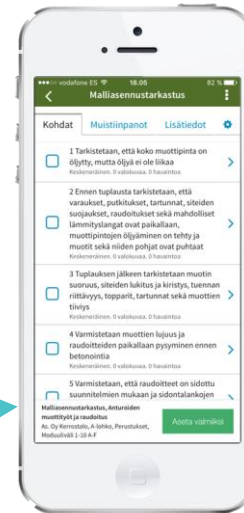


Quality Control Plan ⓘ Print Settings Filter

Search...

Work section, code and section name	Work start	Acceptance	Documents	Status
0 Foundations	2	3 / 5	0	✓
1 Structure	✓ 1	2 / 5 ✓ 1		⊖
2 Indoor works	1 / 7		0	⊖
3 Roofing		0		⊖ ✓X

Fully customizable quality assurance plan and audit templates



How Congrid support contractor involvement

CongridLITE

QualityLITE



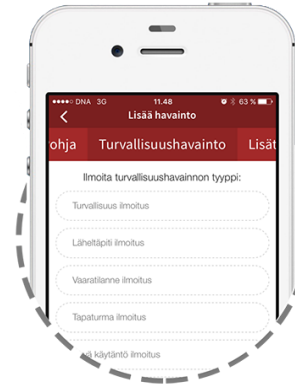
Havainnot

Pvm.	Kuvaus
13.11.2018 14:17	Havainto 24: As. Oy Kerrostalo, A-lohko, 1
13.11.2018 14:17	Havainto 23: As. Oy Kerrostalo, A-lohko, 1
13.11.2018 14:17	Havainto 22: As. Oy Kerrostalo, A-lohko, 1
13.11.2018 14:17	Havainto 21: As. Oy Kerrostalo, A-lohko, 1

As. Oy Kerrostalo
Työ 12345
Congrid Oy

13.11.2018

ID	Kuvaus	Vastuuyhtiö
24	As. Oy Kerrostalo, A-lohko, 1. krs: Elementti tuenta väärä	Elementtia
23	As. Oy Kerrostalo, A-lohko, 1. krs: Elementti tuenta väärä	Elementtia
22	As. Oy Kerrostalo, A-lohko, 1. krs: Elementti tuenta väärä	Elementtia
21	As. Oy Kerrostalo, A-lohko, 1. krs: Elementti tuenta väärä	Elementtia



Työvaiheet

Työvaihe, työvaiheen numero ja nimi	TESU	Alituspäätös	Mestän vastaanotto	Mallisuunnustarkastus	Osakohteen tarkastus	Työväheenvastaanotto	CE-dokumentit
3032 Elementtasennus	0	0	0	0	0	0	0
3033 Osakohteen radotus	0	0	0	0/1	0/2	0	0
3075 KPH-Elementit	0	0	0	0	0	0	0

Näytä 100 kappaleita
Näytetään 1 - 3 / 3 kappaletta

As. Oy Kerrostalo
Työ 12345
Congrid Oy

Laatutarkastus 13
As. Oy Kerrostalo
13.11.2018, Viikko 46

CONGRID

Pvm.	Työvaihe / Tarkastus	Alue	Matti Huusko
13.11.2018	3032 Elementtasennus / Osakohteen tarkastus	As. Oy Kerrostalo	Matti Huusko

Hyväksyjät	Osallistujat

Tila	Kuvaus
✓	1. Varmistetaan elementtien oikea sijainti, asennuksen mittatarkkuus, linjaukset, liitokset, riittävät tukipinnat, oikea korko ja riittävä asennusaikainen tuenta mittaamalla sekä säättämällä elementtien asentotukien ja asennuspulttien avulla
✓	2. Irrotetaan elementit ja testataan niiden kiinnitys ja kiinnityksen voima.

MOBILE - Contractor can complete tasks assigned from mobile with pictures and comments

WEB - Complete own tasks and create reports

MOBILE - Safety notes available for all users

MOBILE - Complete inspections for own responsibility area with photos. Raise tasks when applicable.

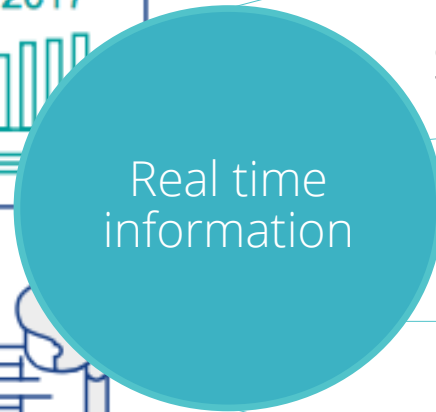
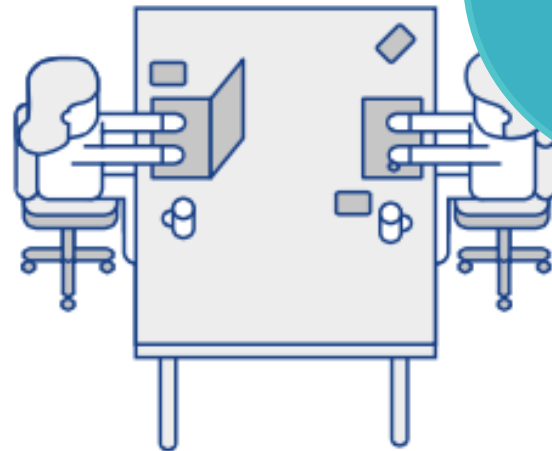
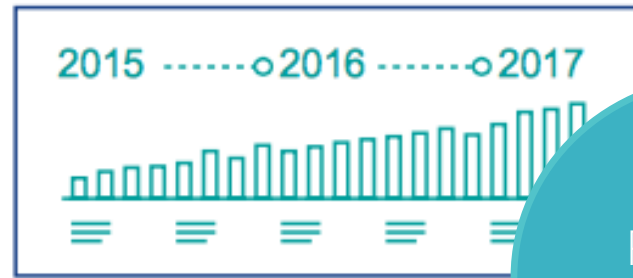
WEB - All inspection reports available for the responsible contractor and relevant stakeholders

Transparent site management

Goal: Common project control / supervision

Everyone participates

- Knowledge sharing
 - Clear big picture
 - Transparent
- Proactive working
 - Responsibility
 - Motivation
- Clear harmonised documentation
 - Structured data
 - Common ways
- Decisions based on real data
 - Supply chain
 - Work progress
 - Quality



Management



Site Manager



Planners



Subcontractors



“We encourage a positive and safe culture where everyone is committed.”

CONGRID

<http://www.congrid.fi>

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