

Team-building and information flow for large groups such as online hackathons

Building on Laugeri's Three Contracts model,
Leonardo 3.4.5 team profile, and matchmaking process

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April 24-26, 60'000 people will join the European Union challenge.¹

Total time invested: 164 years,² plus the wisdom of the crowd.³

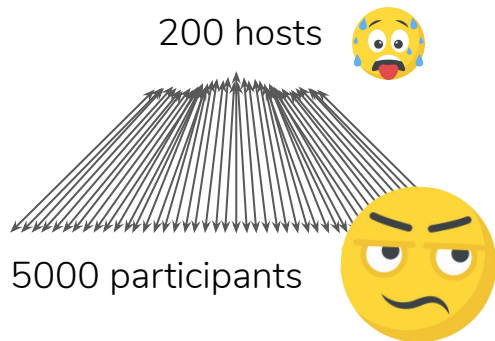
Imagine these 60'000 people transform into one living organism.⁴

What could we dream this 'super-body' could achieve?

Clickable links:

1. Euvsvirus.org
2. With an average contribution of 24 hours per person
3. ncase.me/crowds
4. The event is only an example to illustrate the concept.

Common hackathons fails



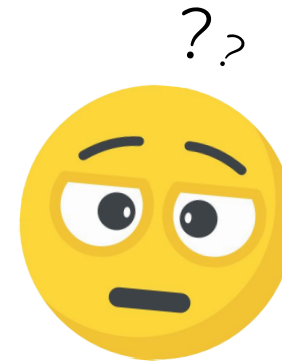
information overload

as little information
as needed



+ waste of resources

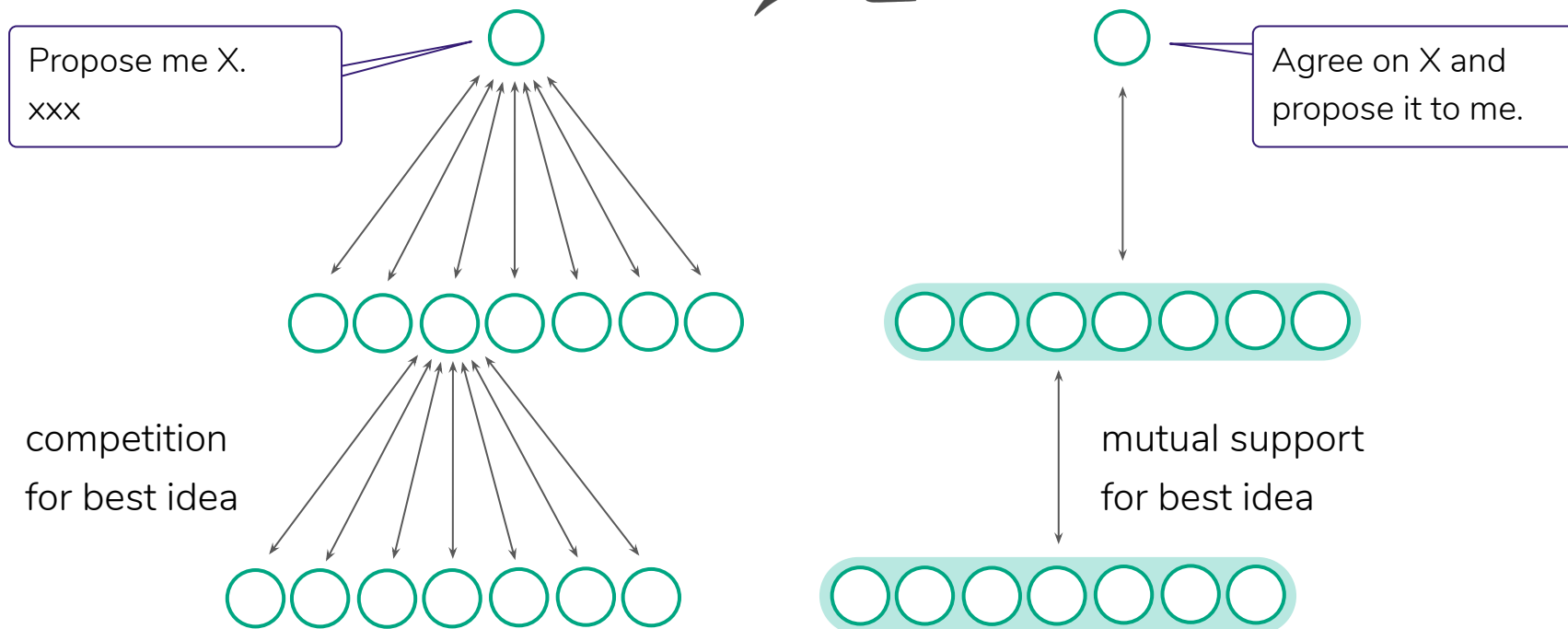
+ coordinated work
across teams



= loss of motivation

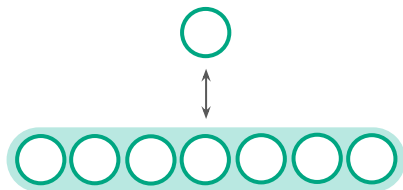
= feeling of belonging,
projects sustain

Changing group dynamics to value mutual support



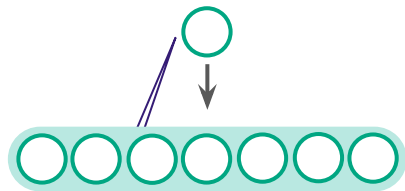
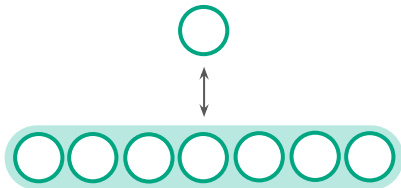
In practice

Onboarding 7 people



lvl	people	topic	begin
1	1	Fight COVID	
2	7	?	

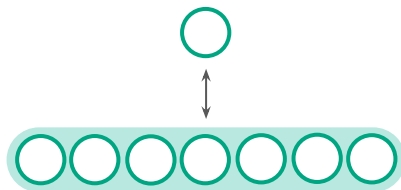
Onboarding 7 people



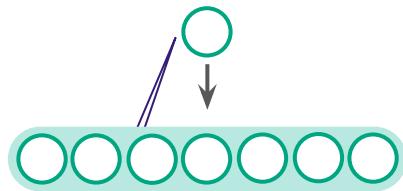
Please agree on 7 topics
to fight COVID
and propose them to me.

lvl	people	topic	begin
1	1	Fight COVID	
2	7	?	

Onboarding 7 people



lvl	people	topic	begin
1	1	Fight COVID	
2	7	?	



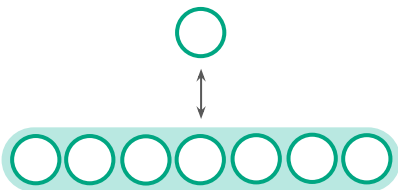
Please agree on 7 topics to fight COVID and propose them to me.



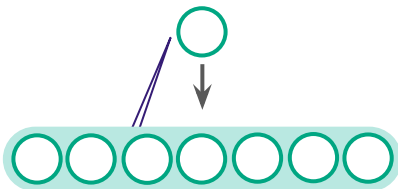
I propose Education, Health

What about Research?

Onboarding 7 people



lvl	people	topic	begin
1	1	Fight COVID	
2	7	?	

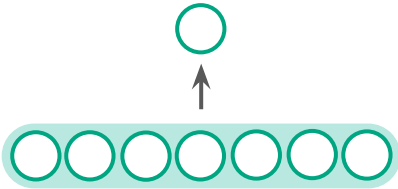


Please agree on 7 topics to fight COVID and propose them to me.



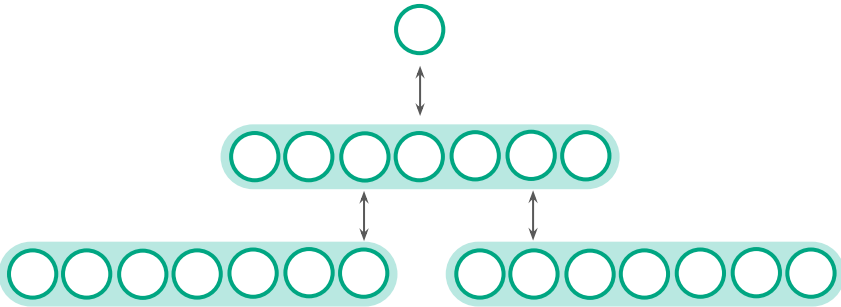
I propose Education, Health

What about Research?



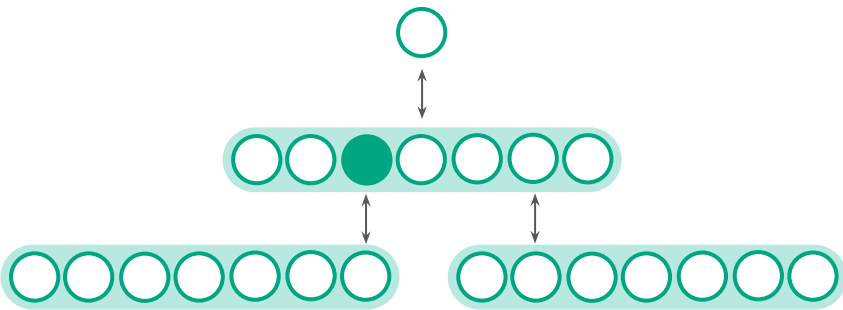
We agree on Health & Medicine, Education, Social Cohesion, ...

Onboarding 49 more people



lvl	people	topic	begin
1	1	Fight COVID	
2	7	Health & Medicine	
3	49	?	

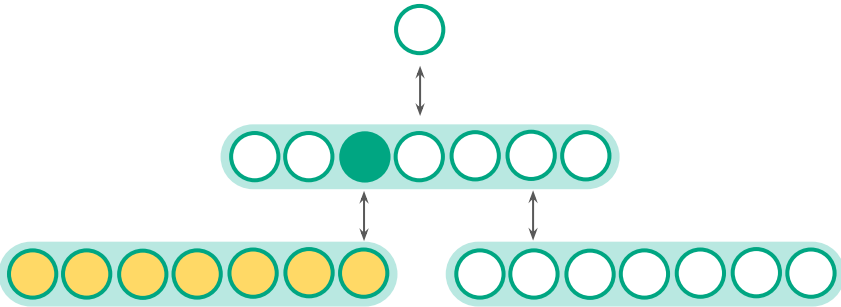
Onboarding 49 more people



lvl	people	topic	begin
1	1	Fight COVID	
2	7	Health & Medicine	
3	49	?	

Let's take ●.

Onboarding 49 more people

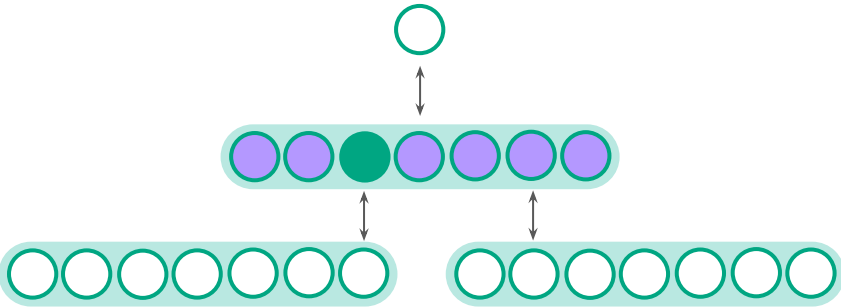


lvl	people	topic	begin
1	1	Fight COVID	
2	7	Health & Medicine	
3	49	?	

● asks ●●●●●●● to agree on seven topics.

●●●●●●● share the seven topics they agreed on to ●.

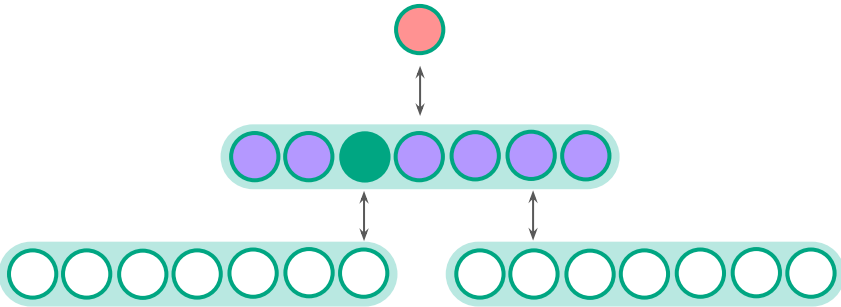
Onboarding 49 more people



lvl	people	topic	begin
1	1	Fight COVID	
2	7	Health & Medicine	
3	49	?	

● agrees with ○○○○○○ to validate / adjust the 49 topics.

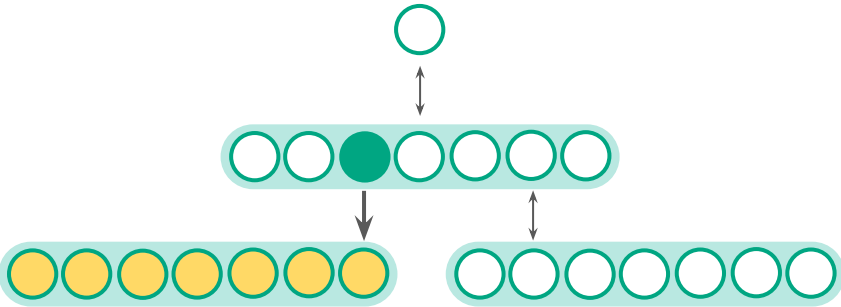
Onboarding 49 more people



lvl	people	topic	begin
1	1	Fight COVID	
2	7	Health & Medicine	
3	49	?	

If needed,  ask questions to , who answers them.

Onboarding 49 more people



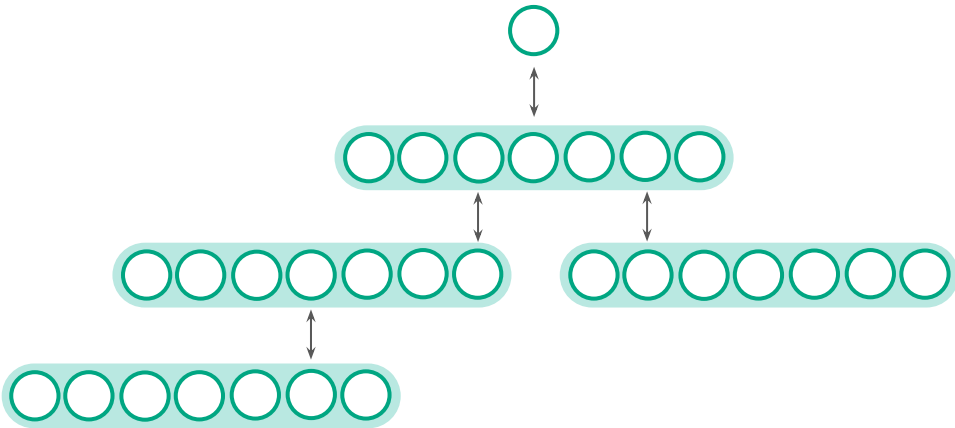
lvl	people	topic	begin
1	1	Fight COVID	
2	7	Health & Medicine	
3	49	One open-science ventilator	

● validates / adjusts and comes back to ●●●●●●● .

Scalable

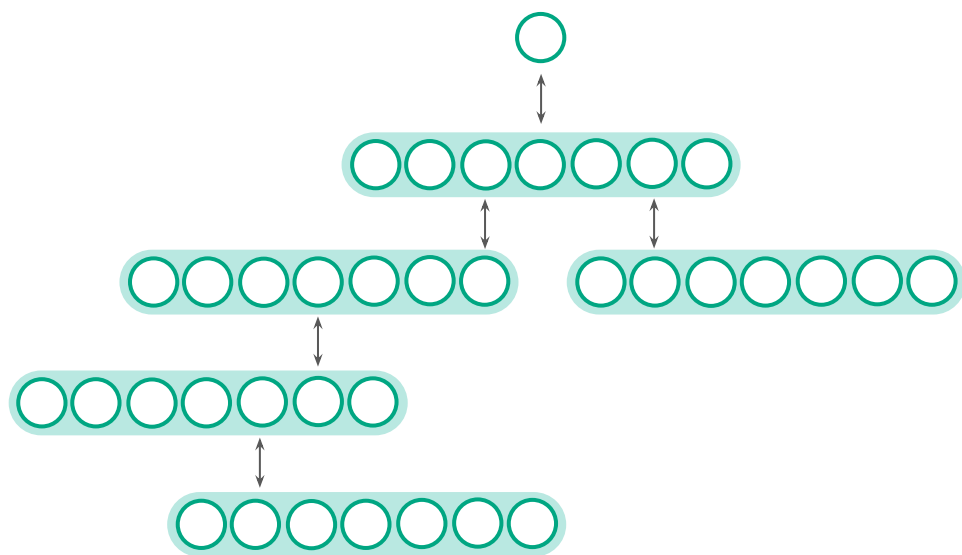
An illustration based on an event with 60'000 people.

343 people



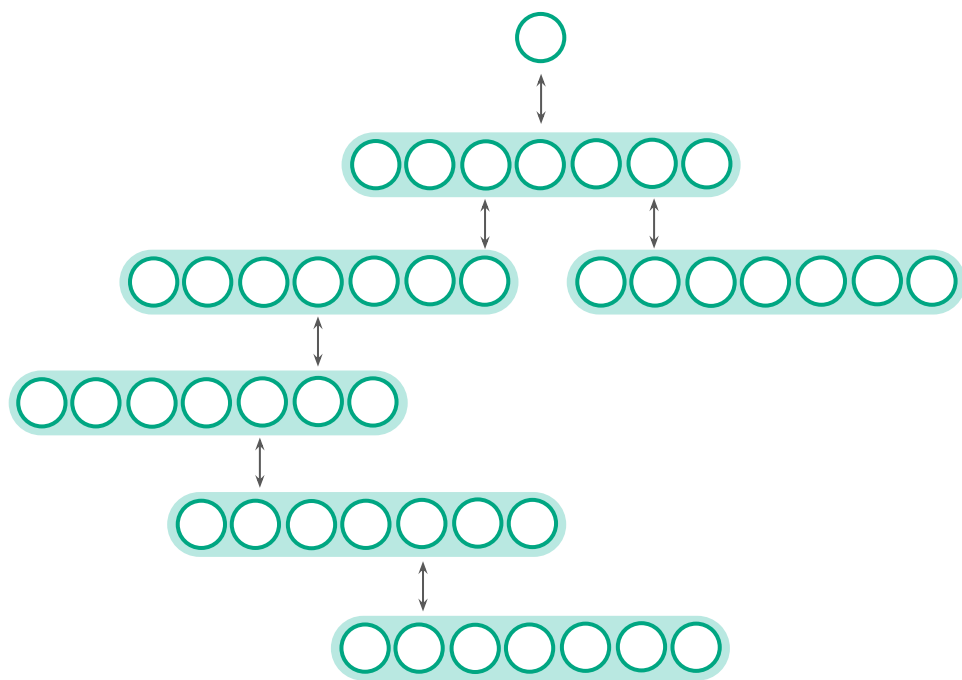
lvl	people	topic	begin
1	1	Fight COVID	
2	7	Health & Medicine	
3	49	One open-science ventilator	
4	343	?	19.04

2401 people



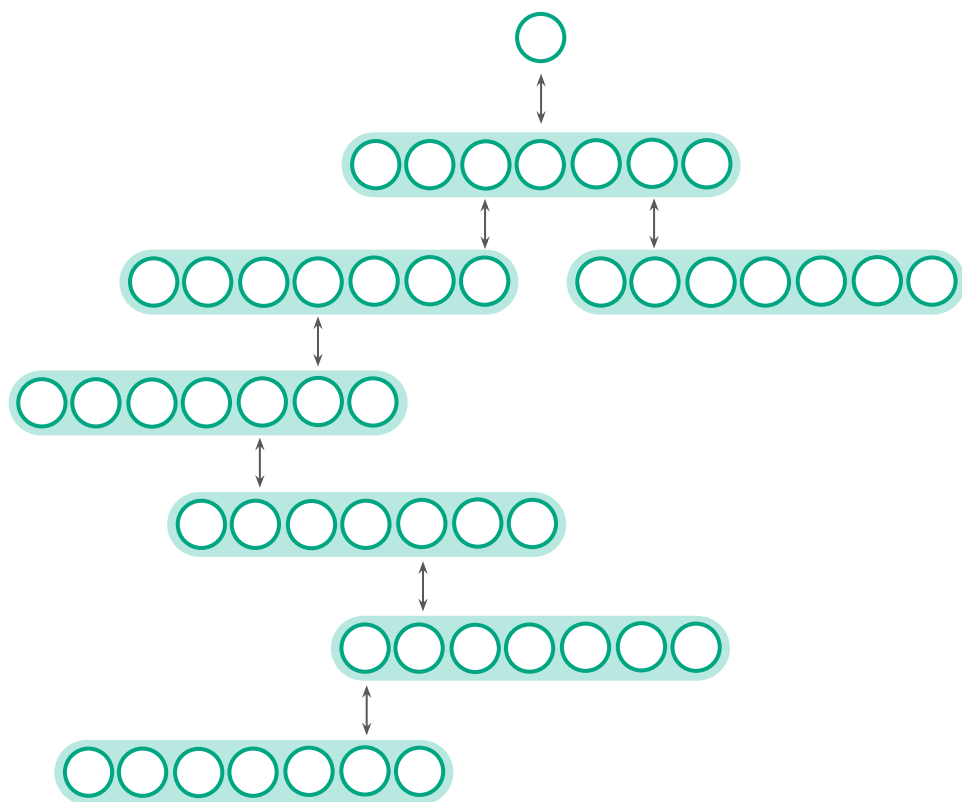
lvl	people	topic	begin
1	1	Fight COVID	
2	7	Health & Medicine	
3	49	One open-science ventilator	
4	343	Gather field needs	19.04
5	2401	?	20.04

16807 people



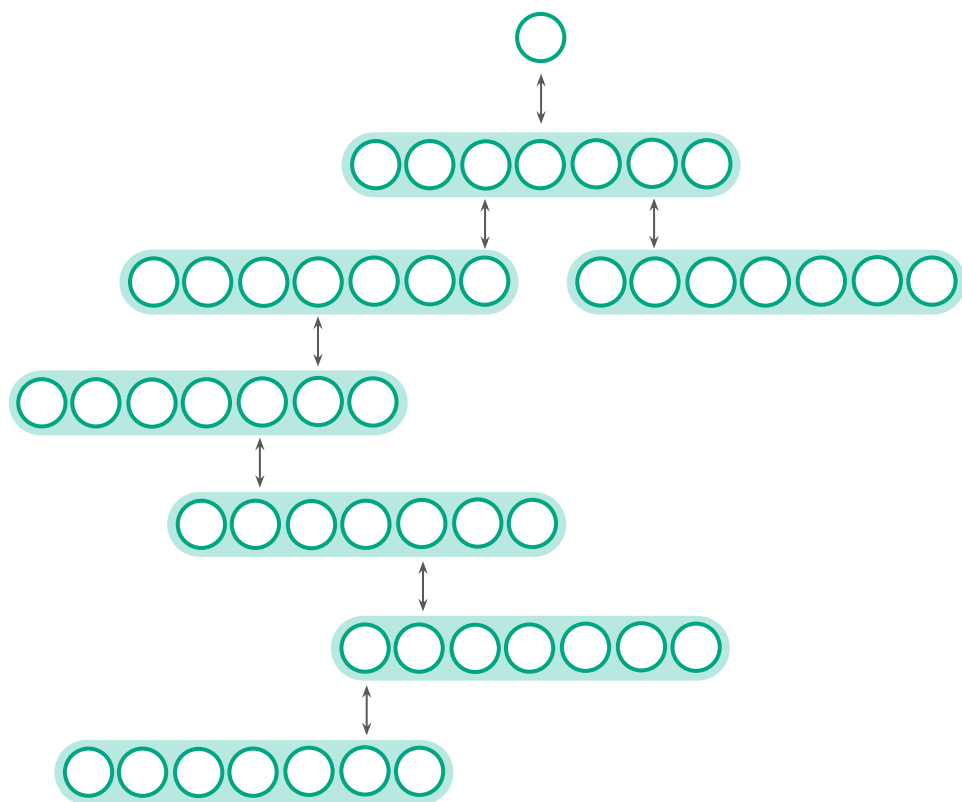
lvl	people	topic	begin
1	1	Fight COVID	
2	7	Health & Medicine	
3	49	One open-science ventilator	
4	343	Gather field needs	19.04
5	2401	List resources required for local production	20.04
6	16807	?	21.04

117649 people



lvl	people	topic	begin
1	1	Fight COVID	
2	7	Health & Medicine	
3	49	One open-science ventilator	
4	343	Gather field needs	19.04
5	2401	List resources required for local production	20.04
6	16807	In Central Europe	21.04
7	117649	?	22.04

117649 people



lvl	people	topic	begin
1	1	Fight COVID	
2	7	Health & Medicine	
3	49	One open-science ventilator	
4	343	Gather field needs	19.04
5	2401	List resources required for local production	20.04
6	16807	In Central Europe	21.04
7	117649	In Switzerland	22.04

Adapted from Laugeri. Emerging Change. TAJ 2020.

This replicates how the body works:

- ✓ as little information as needed:
each person closely interacts with **14 people**.
- ✓ coordinated work across teams:
every individual contributes to one congruent whole.

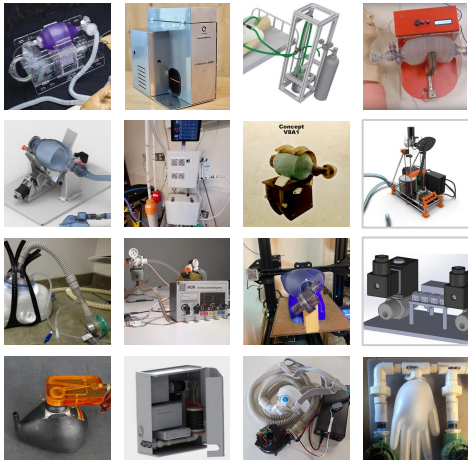
Coordinators can **rely on autonomous teams** to support them.

Individuals support each other to be part of a **meaningful whole**.

There is a feeling of belonging, and projects sustain.

1 in 49 outcomes possible

2'400 participants
coordinate 60 open
versions being built



880'000 ventilation machines
needed to avoid deaths

✓one freely reproducible machine

- ready for mass/crowd production in all countries
- iteratively improved/validated

Technical implementation

Team building

L3 agreed on **49 topics** through rapid iterations with L2 (and L2 with L1 if needed)

Prioritize 10 topics you care of

Open source ventilator

Handrub production

Knowledge transfer

Infection prevention

etc.

Your preferences at work

stability		change
short term		long term
product		method
focus		consens
centralized		decentralised

→ To onboard, L4 prioritize **10 topics** they prefer and fill a **team profile** → April 19, **343 people** (L4) are invited to a team based on their preferences.
such as EU funded Leonardo 3.4.5



L4 agree on **343 topics** through rapid iterations with L3 (and L3 with L2, L2 with L1 if needed)

Interfaces

User registers

Michele

- **profile:** stabilization
- **available:** from 19.04
- **prioritized topics:**
 - 1.3.2) ventil resources
 - 1.3.4) ventil certification
 - 3.4.2) education for elders

gets allocated to highest
bucket available

19.04	4	343 p
20.04	5	2401 p
21.04	6	16807 p
22.04	7	117649 p

is invited to join team based
on preferences (algorithm)

You are invited to join group
1.1.7 ventil certification.

Channel #1.3.4

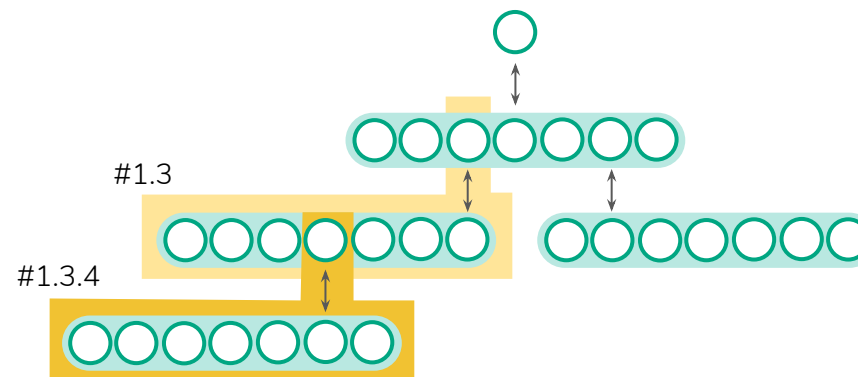
The topic coordinator 1.3 will
contact you.

Then

- group agrees on 7 topics
to covers 1.3.4
- once topics validated
by 1.3, group is asked
to create channels 1.3.4.1
to 1.3.4.7

Website, database, matchmaking algorithm

Channels



Thank you.