

# 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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Archive for

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

Total time invested: 164 years,<sup>1</sup> plus the wisdom of the crowd.<sup>2</sup>

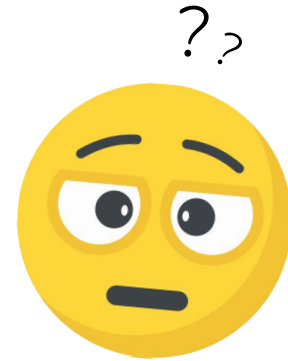
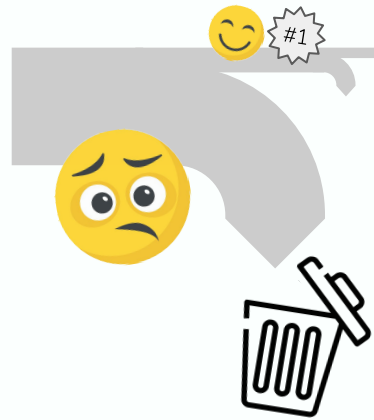
Imagine these 60'000 people transform into one living organism.

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

Clickable links:

1. [Euvsvirus.org](http://Euvsvirus.org)
2. With an average contribution of 24 hours per person
3. [ncase.me/crowds](http://ncase.me/crowds)

## Common hackathons fails



information overload

+ waste of resources

= loss of motivation

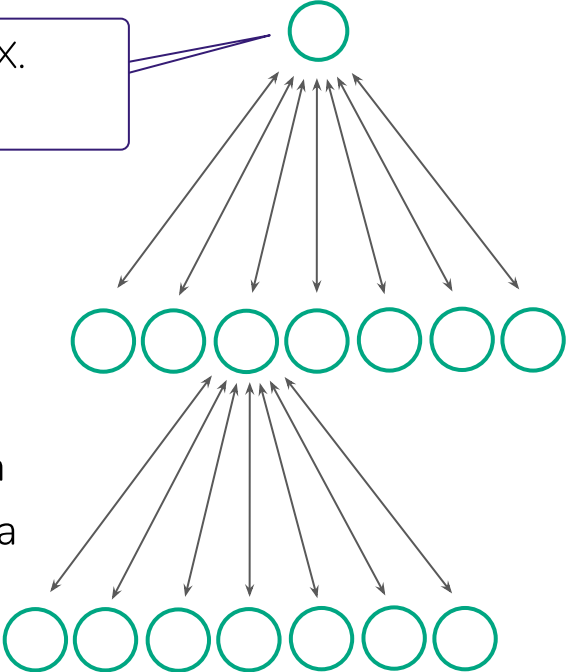
↙  
as little information  
as needed

+ coordinated work  
across teams

= feeling of belonging,  
projects sustain

# Changing group dynamics to value mutual support

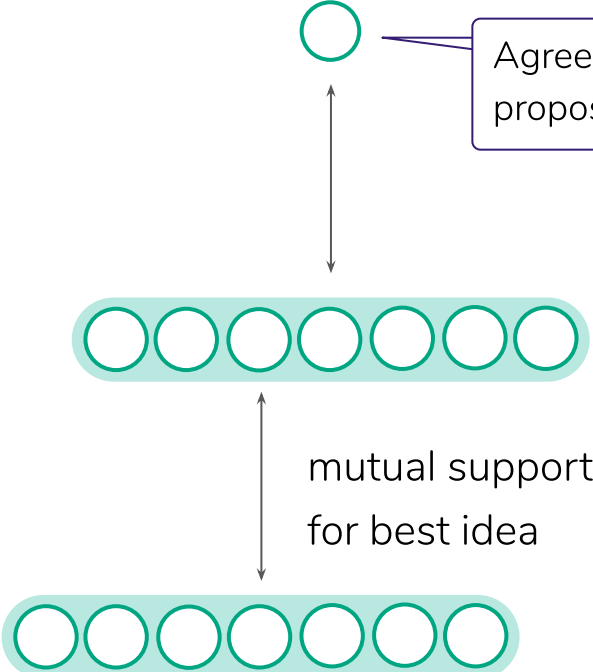
Propose me X.  
xxx



competition  
for best idea



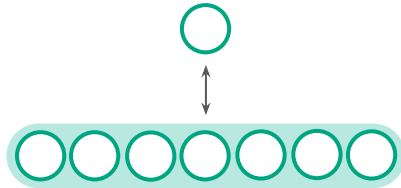
Agree on X and  
propose it to me.



mutual support  
for best idea

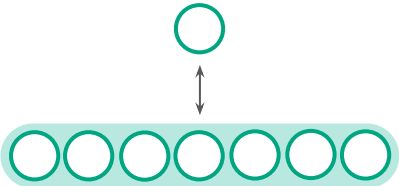
In practice

## Onboarding 7 people

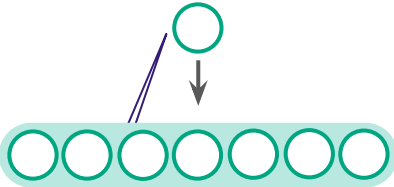


lvl	people	topic	begin
1	1	Fight COVID	
2	7	?	

# Onboarding 7 people

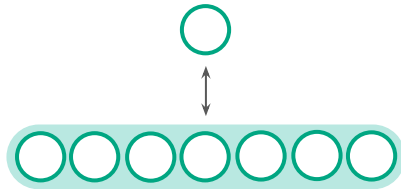


lvl	people	topic	begin
1	1	Fight COVID	
↕			
2	7	?	

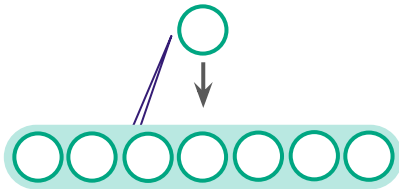


Please agree on 7 topics to fight COVID and propose them to me.

# 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.

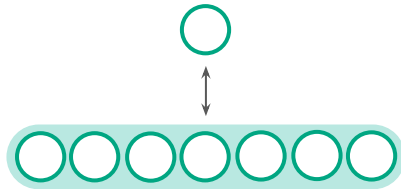


I propose Education, Health

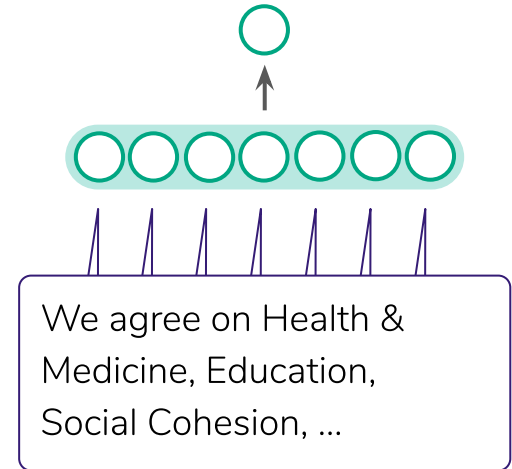
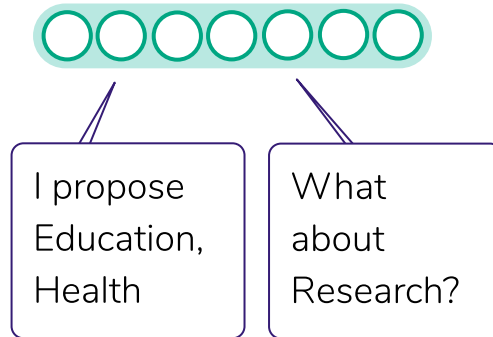
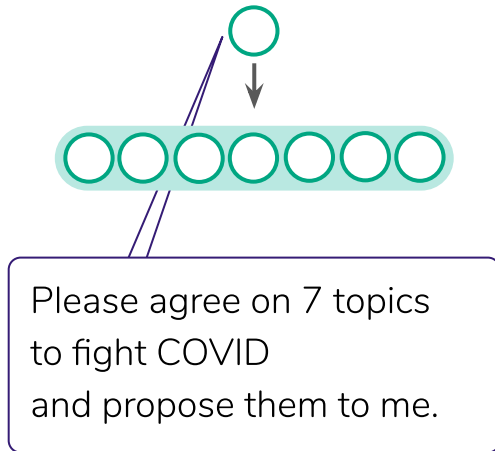
What about Research?



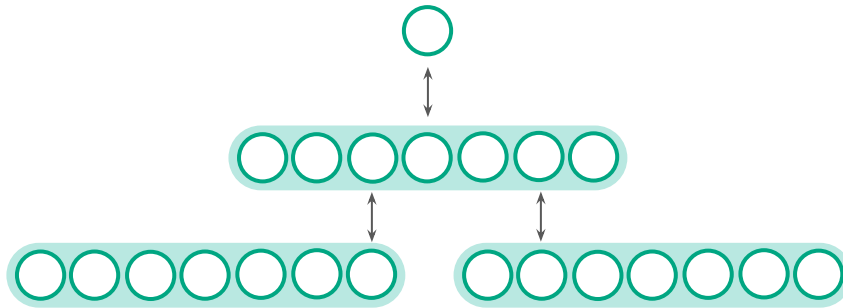
# Onboarding 7 people



lvl	people	topic	begin
1	1	Fight COVID	
↕			
2	7	?	

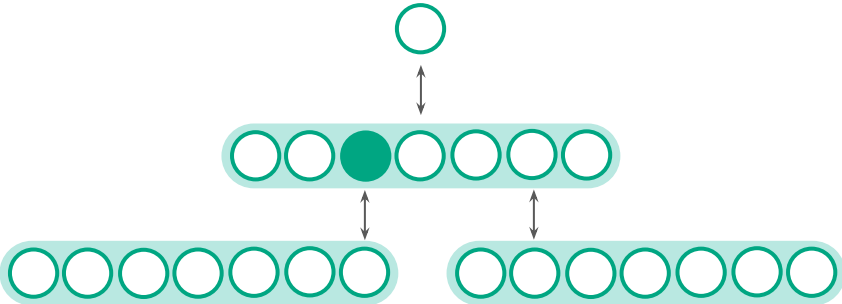


## Onboarding 49 more people



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

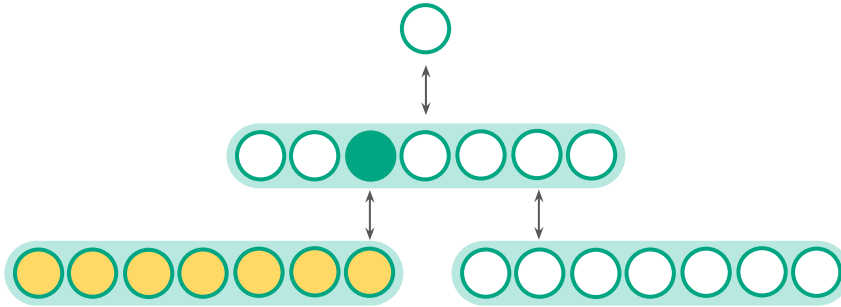
# Onboarding 49 more people



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

Let's take ●.

# Onboarding 49 more people

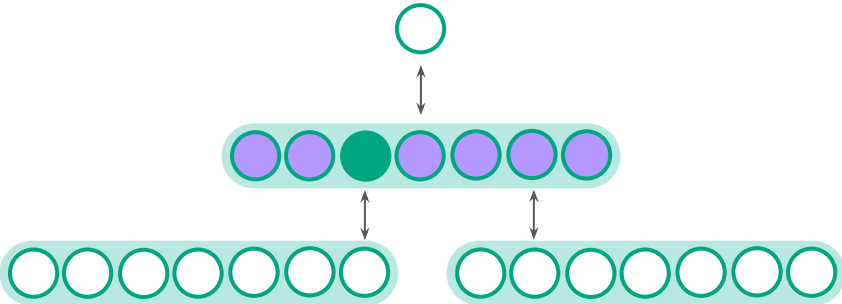


lvl	people	topic	begin
1	1	Fight COVID	
2	7	Health & Medicine	
3	49	?	

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

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

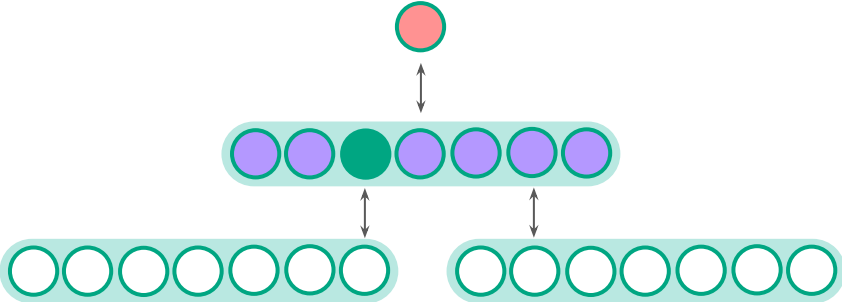
# Onboarding 49 more people



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

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

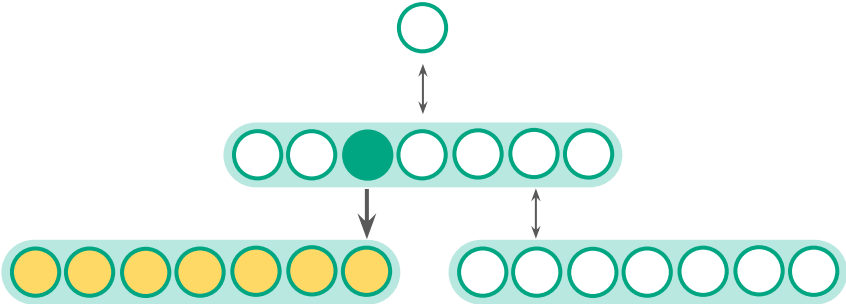
# Onboarding 49 more people



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



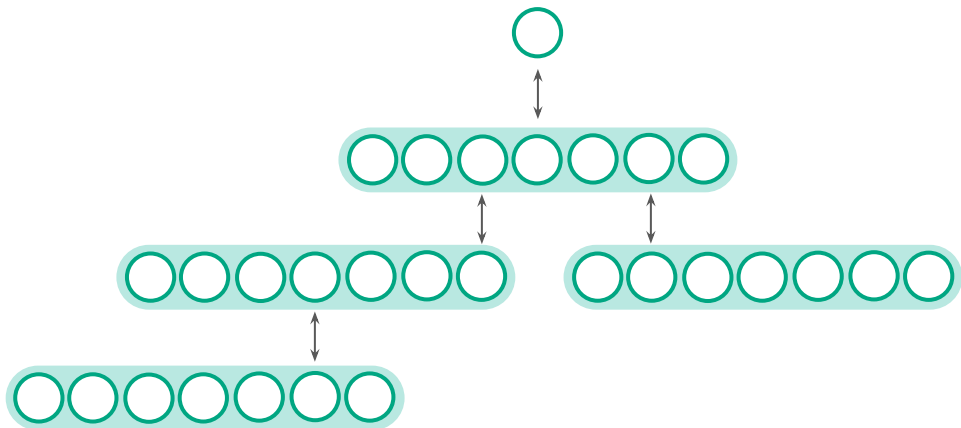
lvl	people	topic	begin
1	1	Fight COVID	
2	7	Health & Medicine	
3	49	One open-science ventilator	

● validates / adjusts and comes back to  .

Scalable

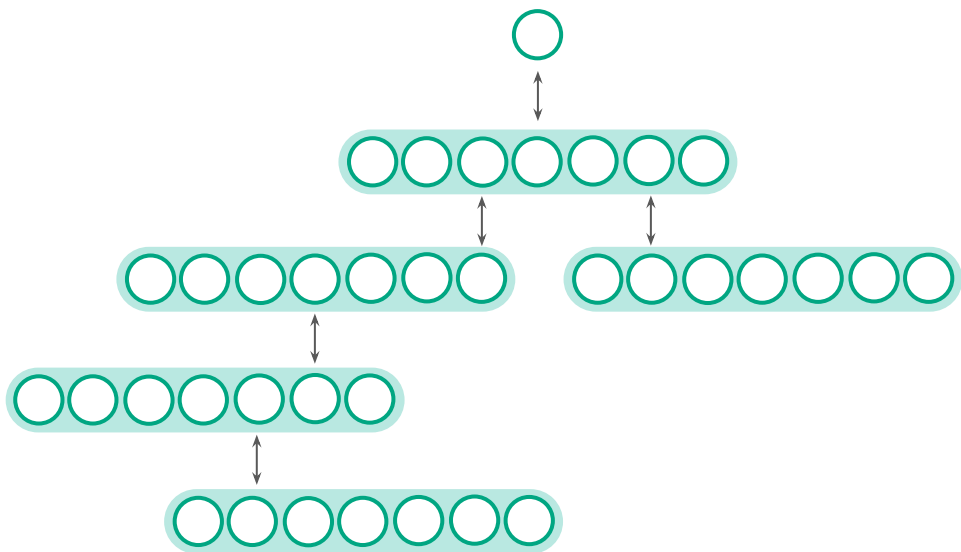


343 people



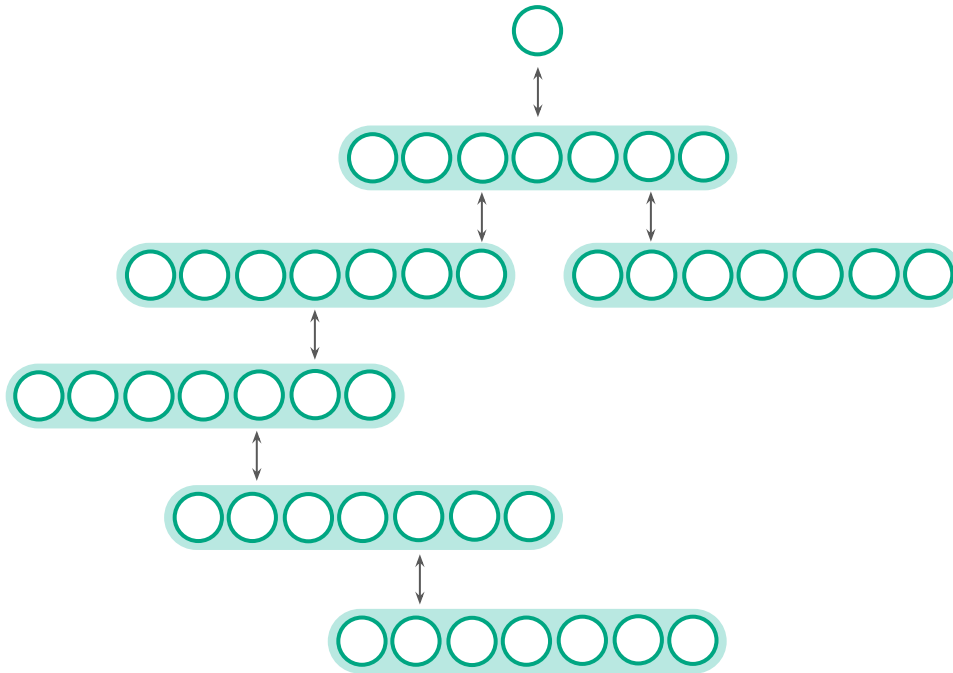
lvl	people	topic	begin
1	1	Fight COVID	
2	7	Health & Medicine	
3	49	One open-science ventilator	
4	343	?	19.04

## 2401 people



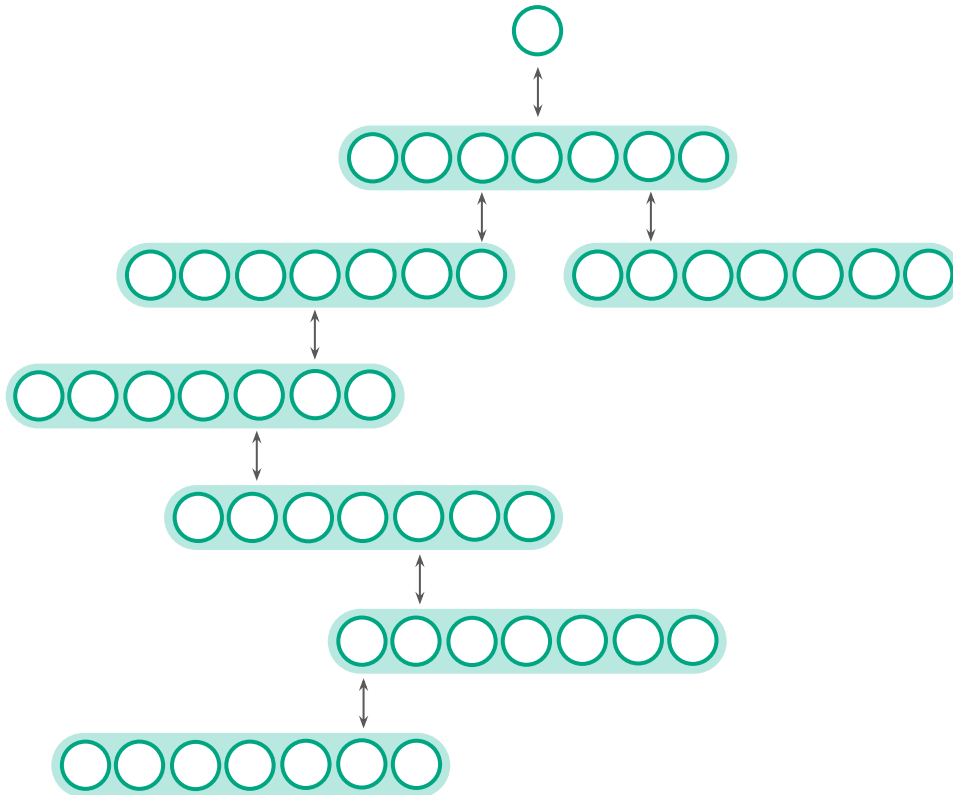
lvl	people	topic	begin
1	1	Fight COVID	
2	7	Health & Medicine	
3	49	One open-science ventilator	
4	343	Gather field needs	19.04
5	2401	?	20.04

16807 people



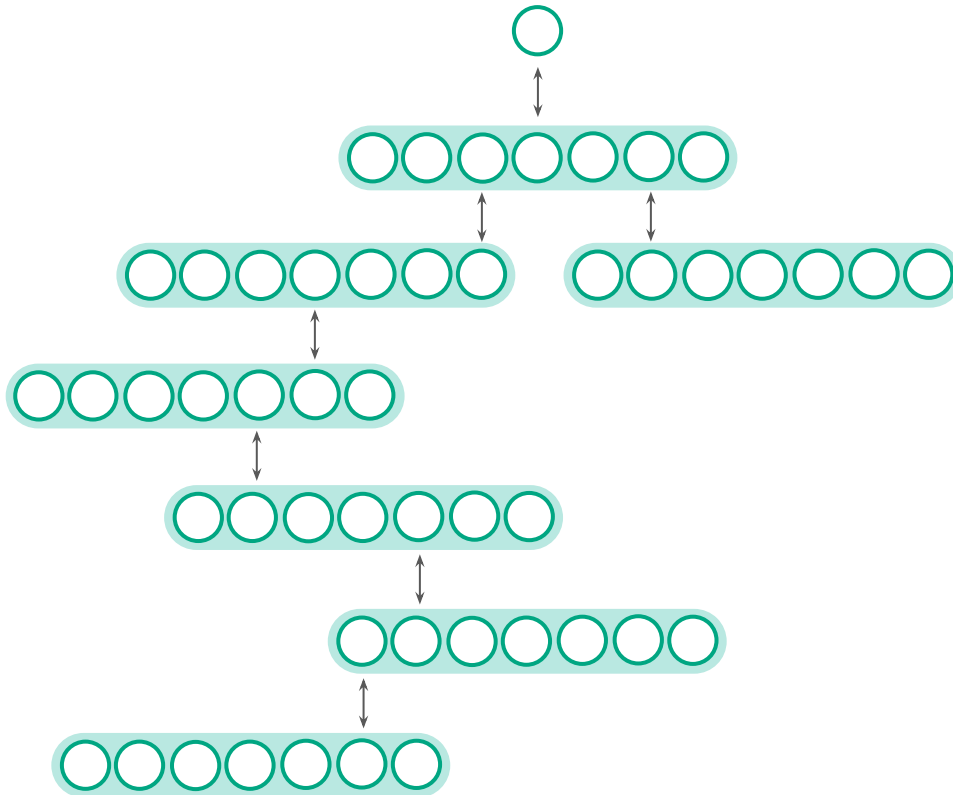
lvl	people	topic	begin
1	1	Fight COVID	
2	7	Health & Medicine	
3	49	One open-science ventilator	
4	343	Gather field needs	19.04
5	2401	List resources required for local production	20.04
6	16807	?	21.04

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

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.

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

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

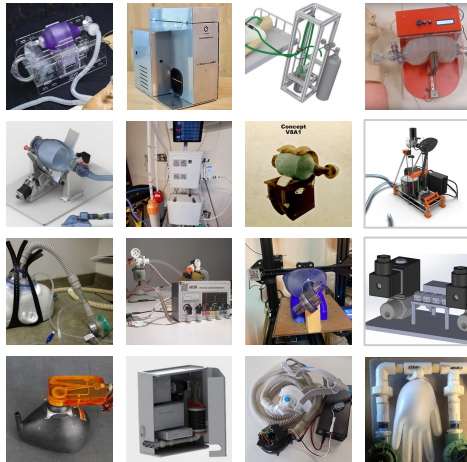
There is a feeling of belonging, and projects sustain.

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





# 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**

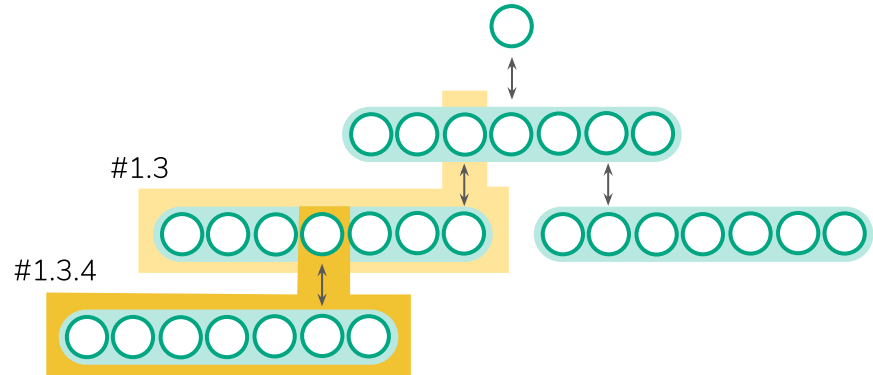
The topic coordinator 1.3 will contact you.

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.