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The challenge of opinion formation in large groups

Binary relations of **one-on-one communication** grow quadratically with number of participants.

Group discussions are limited by the number of (active) participants and/or the ability of participants to speak as they see fit.

Online group discussions lack quantification ("50% impression") and tend to become dysfunctional with real conflicts.

By definition moderation imposes democratic deficits.





The challenge 1/2

- Democratic self organization of an unlimited number of participants.
- Applicable in organizations with real conflicts.
- No moderator or request commission.
- Bipartisan cooperation must not be a precondition.



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The challenge 2/2

- Consider pros, cons and alternatives prior to voting.
- Minority protection.
- Protection against dominance of noisy minorities.
- No encouragement for tactical voting.
- Credible process with trustworthy and indisputable results.





LiquidFeedback: 4 Principles

Transparency Credibility





Collective Moderation

Proxy Voting Scalability





Preferential Voting



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Transparency and Collective Moderation

- democratic self organization
- no moderator or request commission
- applicable in large organizations with real conflicts
- (bipartisan) cooperation must not be a precondition
- trustworthy and indisputable results

Many drafts will still be created by closed groups or even individuals.





Transparency and Collective Moderation



Structured discussion process

- user driven, self organized process
- every member can start an initiative
- quantified constructive feedback
- · initiators decide about adoption
- no fundamental opposition within an initiative
- · every member can start an alternative initiative

The structured discussion is supplemented by a variety of unstructured discussion formats, both online and offline.





Transparency and Collective Moderation

support

potential support

based on suggestions

- must
- should
- should not
- must not



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yes/no

multiple choice

open answer

searching for the question





Function of the process steps

admission eg. 4 weeks e.g. 8 weeks e.g. 4 weeks e.g. 4 weeks

search for the question, create set of answers (voting options)			decision
flow control	improvement	consolidation	voting





Searching for the Question

initiatives are possible answers and define the **issue**





Minority protection

unalienable rights proportional representation

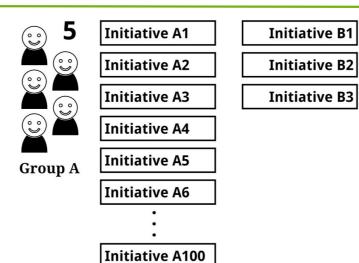
technical measures



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Display position

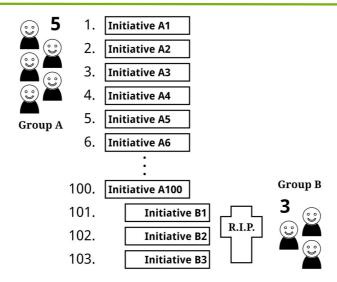






Group B

Display position

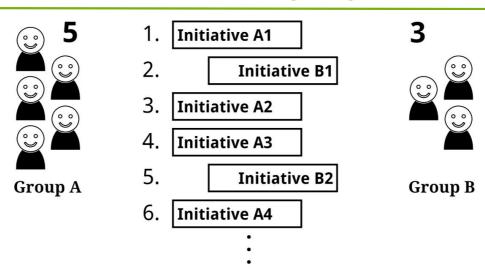




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Harmonic weighting





Harmonic weighting

Minority	M=1	M=2	M=3
40%	2	5	7
30%	3	6	10
25%	4	8	12
20%	5	10	15
15%	6	13	20
10%	10	20	30
5%	20	40	60
3%	33	66	100
1%	100	200	300
p%	$\lfloor 100/p \rfloor$	$\lfloor 200/p \rfloor$	$\lfloor 300/p \rfloor$

guaranteed worst case display position



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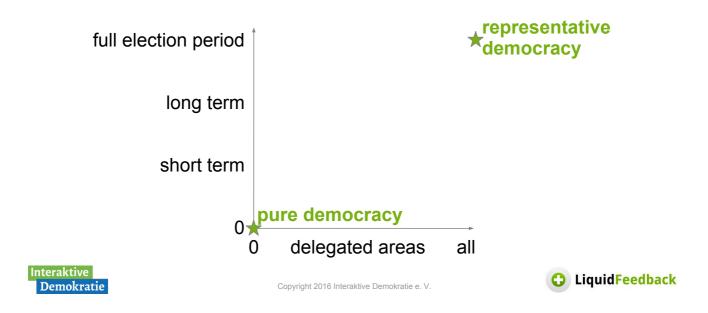
Proxy voting (Liquid Democracy)

area	representation
finances	→ Alice
health	→ Bob
town planning	self
traffic	self
all other areas	→ Charlie





Proxy voting (Liquid Democracy)



Liquid Democracy (proxy voting)

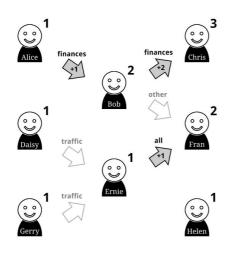
dynamic division of labor

based on individual choice





Proxy voting in LiquidFeedback



- delegations are applied to both discussion and final voting
- are overruled by more fine graded delegations
- automatically suspended by activity for the given activity



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Liquid Democracy

direct participation

- . knowledge
- . interested in
- importance
- affected by

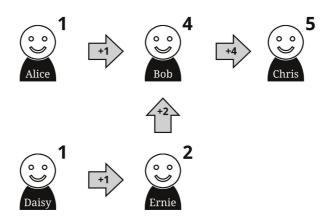
representation

- expertise
- reputation
- trust
- sympathy





Transitive delegations

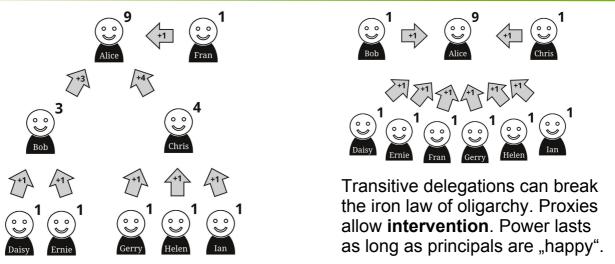




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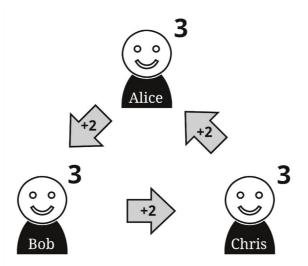
Dynamic accumulation and cancellation of power







Circular delegations

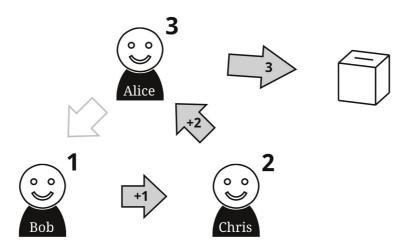




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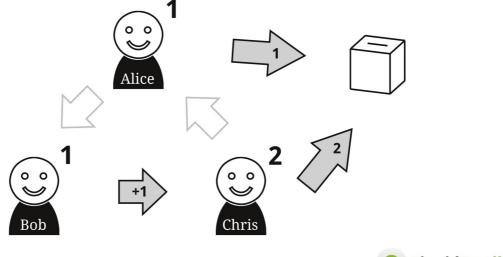
Circular delegations







Circular delegations

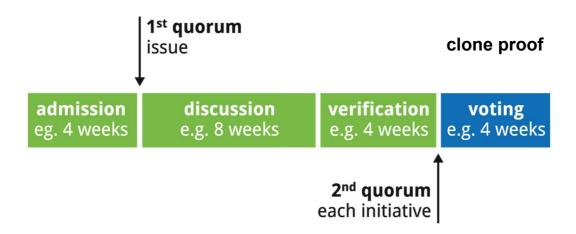




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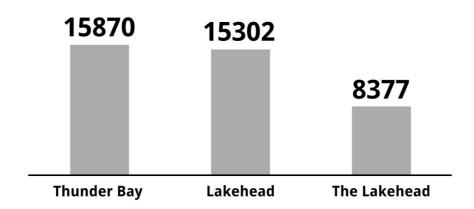
Preferential voting







Thunder Bay, Ontario amalgamation referendum (1969)

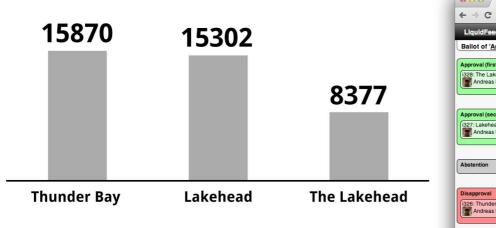




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Thunder Bay, Ontario amalgamation referendum (1969)

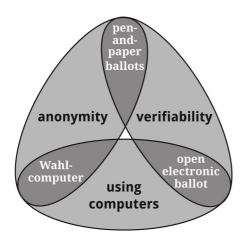






LiquidFeedback

Anonymity and verifiability



- ...don't go together with computers,
- ...let alone secrecy and computers!



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LiquidFeedback is no Black Box

correct function can be fully audited by the users

all process relevant data is available both human and machine readable

snapshots of all decision relevant states

users can can compare checksums and avoid "alternative realities"





Application fields









political parties
associations
civic participation
constituency participation
corporations
cooperatives



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participation quota

increasing factors

- binding results, commitment
- interest in issues
- personal assessment of importance

decreasing factors

- barriers
- trust in representatives
- satisfaction with administration

The participation quota does not qualify as a target function.





The five questions of participation



Who may participate?
What is the subject of participation?
Which instruments are used?
How are the instruments used?
Why to participate?



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what it needs to be successful



- access control (accreditation)
- verifiability and transparency (recorded vote)
- serve a purpose
 (as binding as possible)
- avoid false expectations (be clear on limitations)





Publications

The Principles of LiquidFeedback

http://principles.liquidfeedback.org/

The Liquid Democracy Journal

on electronic participation, collective moderation, and voting systems http://www.liquid-democracy-journal.org/



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Thank you!

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