Release Plan

We have prioritized all stakeholders on a scale from 1 to 4, and all system features from each stakeholder's point of view. Then we summed up the priorities and multiplied them with each stakeholder weight.

$$Weighted\ priority\ (f(i)) = \sum_s w_s * p_s(i)$$

where w_s is the weight of each stakeholder and $p_s(i)$ is the priority assigned to feature $f(i)$ by stakeholder s. See appendix A for the exact results of the prioritisation process.

Our customer has decided that the budget for the three first releases should be divided as follows: ~30% to Release 0.1, ~50% to Release 1.0, ~20% to Release 2.0. We have estimated the effort for each high-level feature (in effort points) to try and fulfill this constraint.

The planning has been carried out as follows: The allocation according to the pre-assignment constraint was carried out first. Then the features was sorted according to the "value divided by cost quota", $q(i) = \frac{wp(i)}{e(i)}$ where $wp(i)$ is the weighted priority and $e(i)$ the estimated effort for feature i. The features were then chosen greedily and allocated to each release in order until no more features could be assigned without overruling the effort constraints.

Constraint 1: For the system to be workable at all, the following features must be included in Release 0.1: F01, F02, F03, F05, F10, F13

Constraint 2: The following division of effort budget should be met as closely as possible: 30% to Release 0.1, 50% to Release 1.0, 20% to Release 2.0.

The first release, 0.1, is aimed to be used as an extensive pilot test. The plan is to carry out a simulated election period on it. At the time of release 1.0, it shall be possible to run a full-scale proper election with the system. Release 2.0 will provide additional usability improvements to the system.

Release 0.1	Release 1.0	Release 2.0
F01. Web GUI for voting	F07. Assembling of manual votes	F16. Support for voters with motor disabilities
F02. Input from party/candidate database	F04. Individual Verifiability	F17. Support for the illiterate & dyslectic
F03. Send vote to server	F11. Coercion-Resistance & Receipt-Freeness	
F05. Counting of electronic votes	F09. Authentication	
F10. Voter eligibility check	F15. Support for visually impaired voters	
F12. Fairness	F06. Support for different languages	
F13. Admin interface	F14. Support for cognitive disabilities	
	F08. Privacy	

Appendix A

This is the results from the two prioritisation sessions. One session was carried out by the requirement analysts, estimating the priorities of every stakeholder except Valmyndigheten. The other session was carried out by Valmyndigheten (first value column).

Features / Stakeholders	Valmynd	Experts	Idlers	Disabled	Cognitiv	Visually	NonSwed	LowKnowl	Unintere	Abroad	Typical	SubContr	Dyslecti	Hackers	Weighted	Effort	Value / Cost
F01. Web GUI for voting	8	5	7	7	7	7	7	9	9	9	7	7	9	7	297	20	14,85
F02. Input from party/candidate database	9	5	5	5	5	5	5	5	5	5	5	7	5	7	209	24	8,708333333
F03. Send vote to server	9	7	5	5	5	5	5	5	5	5	5	7	5	9	221	30	7,366666667
F04. Individual Verifiability	8	9	5	7	5	5	5	7	5	5	5	1	5	9	239	40	5,975
F05. Counting of electronic votes	9	5	5	5	5	5	5	5	5	5	5	7	5	7	209	36	5,805555556
F06. Support for different languages	7	3	5	5	5	5	9	5	5	5	5	7	5	3	191	50	3,82
F07. Assembling of manual votes	5	7	3	5	5	5	5	9	9	5	5	7	5	7	201	20	10,05
F08. Privacy	9	9	5	7	5	5	5	5	5	5	7	1	5	5	235	60	3,916666667
F09. Authentication	9	9	5	5	5	5	5	5	5	5	5	1	5	9	221	40	5,525
F10. Voter eligibility check	9	9	5	5	5	5	5	5	5	5	5	1	5	9	221	50	4,42
F11. Coercion-Resistance & Receipt-	5	9	5	7	5	5	5	5	5	5	5	1	5	9	225	40	5,625
F12. Fairness	6	9	5	5	5	5	5	5	5	5	5	1	5	9	209	20	10,45
F13. Admin interface	2	3	1	1	1	1	1	1	1	1	1	7	1	9	69	30	2,3
F14. Support for cognitive disabilities	3	3	5	7	9	5	5	5	5	5	5	7	5	3	243	80	3,0375
F15. Support for visually impaired voters	4	3	5	7	5	9	5	5	5	5	5	7	5	3	199	40	4,975
F16. Support for voters with motor	4	3	5	7	5	5	5	5	5	5	5	7	5	3	191	80	2,3875
F17. Support for the illiterate & dyslectic	3	3	5	5	5	5	5	5	5	5	5	5	9	3	173	80	2,1625
Stakeholder weight	4	3	3	2	1	2	2	1	1	2	3	1	2	3			