#### IMPORTANT INFORMATION

# Guide to the Roadmap Phase 1 Project Q by: Actions L: QuantumFusion Improve the High level architecture ••• Foundation - Finish with Substrate VM (GPU vs CPU) Benchmark and test a possible solutions: NomtDB [w/ Substrate] Ph Task Name Duration Week 2 Week 1 Storage 1. Blocks, Transactions, State data 14 days 2. Storage Mechanism Database, indexing & query Consensus, Network 1. Consensus algorithm, 21 days finalization approach 2. Network protocol, latency and bandwidth metrics 3. State management Benchmark and test: Substrate and Wasm (CPU), VM Substrate and Wasm (GPU) [this required 14 days Virtual Machine, low-level execution development and researches] Arch, WP, Infra 88 days L1 blockchain Architecture, WhitePaper, Infrastructure Hash Optimisation 14 days Hash optimization EcoSystem 28 days EcoSystem, Community, Engagement Security and Privacy 28 + ? days Security and Privacy RESULTS

To start design and develop solution as early as possible and optimize the selection strategies for R&D, we have divided its development into three key stages:

After the start of full-scale R&D, we'll be able to run the first version of our faster, secure and privacy L1 blockchain (secured by polkadot)

specifications

Results

Updated draw.io for adding it into WP

### Phase 2

Actions

- Report for adding it into WP
- Done with Consensus and Network Done with testing PolkaVM
- PolkaVM vs Wasm (CPU, GPU)
- Create a high-level plan for building L1 network (using Polkadot)

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	Wee	КЗ	We	ek 4	Wee	ək 5	
			Current Week				
	Benchmark and test a possible solutions: NomtDB [w/ Substrate]						
	Report on be	nchmarks to in	clude into WP				
						c and test: nQ rt of "test" pla Substrate i	n for inte
			[Popula	e or reject one fr ar], PoET, PoH [S <b>oS was chosen</b>	Solana], PoC, I	PoA, PoB	Approv (AKA Co of
		Benchmark Polka [w/ Subs	VM				
					Add to WP will be		Get a
			stable infrast and benchm		Updated dr adding it int		S Draf
					Resear	ch Blake3 for a	all hashin
		Evaluatio	on for related	EcoSystem inte	egrations		
	Initial research for main components, e.g. seeds, blocks, etc						
		t on benchmarl ubstrate and W CPU)			Storage Report on b include into		Arch, WP,
	So Busin	ess RoadMap (	Figma)		Arch, WP, infra Updated dr adding it int		

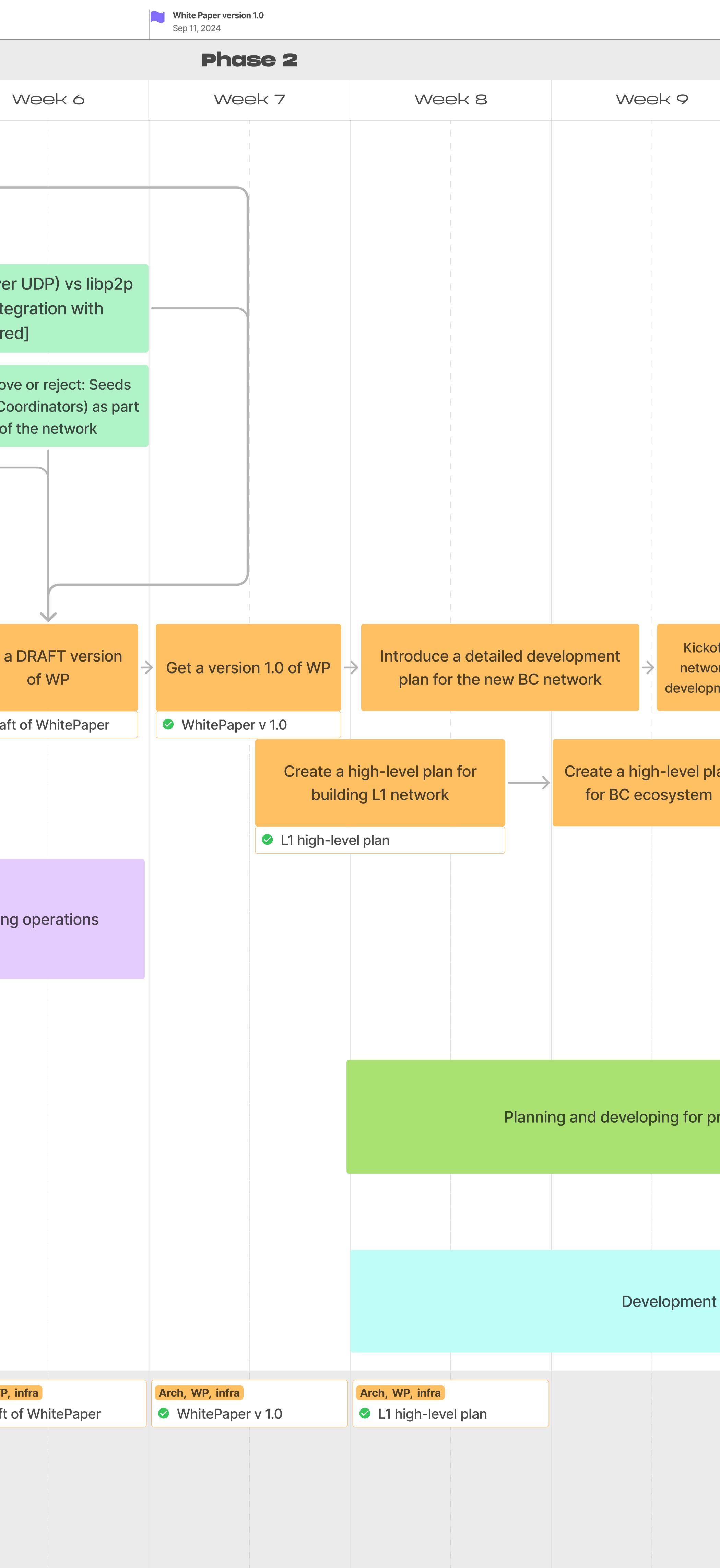
## In addition to solution R&D, we also focus on **Operational Processes.**

- Operational processes include costs for:
- maintaining R&D process smooth and steady specialist search for the required equipment
- maintaining technical infrastructure with typical hardware profile up-and-running for benchmarks tests cases, aligned with other tech teams knowledge management process
- communication flows

## The number of developers might be be adjusted.

#### Results

- Report on Consensus and Network for adding it into WP
- Report on testing PolkaVM for adding it into WP
- Report on test PolkaVM vs Wasm (CPU, GPU) for adding it into WP
- A plan for adding it into WP Done with the WP v 1.0



## The sequence of R&D stages can be altered at the QF's discretion

The cost and time estimates are approximate and heavily depend on receiving additional input data: The number of hypotheses in tests

- Formats, types, level of details of documentation
- Types and levels of details for different Stakeholders viewpoint and reports
- Needed expertise for agreed scope of hypotheses in tests
- We'll possible reevaluate scope and needed resources based on research results at some stage

#### Phase 3

Actions

- Done with development plan and Roadmap based on WP
- Kick-off development as a process
- Done High level ecosystem plan and PolkaDot High level
- plan

	Phase 3							
	Week 10	Week 11	Week 12					
			ther Solution Developmen: Phase4 & Phase5					
priority point to connect with EcoSystem								
nt based on WP findings								
	<ul> <li>VM</li> <li>Report on benchmark and t PolkaVM and Wasm</li> <li>Network</li> <li>Report on benchmark and t nQUIC (over UDP) vs libp2p</li> <li>Arch, WP, infra</li> <li>Updated draw.io for WP</li> </ul>							