## **Multimedia Appendix 3.** Step-by-step workflow comparisons between existing and proposed systems.

Home care service workflow	Existing System	Blockchain-based system
1.Home care service demand	Human workforce for	Demand updates by platform
(update to matching engine)	case filing	clients application
2.Case matching	Matching Engine	<ul><li>Matching results on chain</li></ul>
2-1.Service notification to caregiver	Phone calls or Emails	<b>(a) (c)</b>
2-2. Service notification to caregiver	Phone calls or Emails	(a) (A)
2-3.Decision making (caregiver)	Passive	M Dominated by caregiver
2-4.Decision making (caretaker)	Passive	M Dominated by caretaker
2-5.Service Confirmation	Care center	A Smart-contract-enabled
	intermediation	check/communication
3.Service Notification	Phone calls or Emails	A Facilitated via event-driven
		mechanism
4.Insurance application (policy)	Lack of short-term	(A) © System generation according
	insurance products	to insurance conditions
5.Service assignment	Human workforce	(A) *
6.Service delivery	Opaque monitor;	A *
	Need further check	
6-1 Way to caretaker's	Poor control on process monitoring	*
6-2 Service started		* (A)
6-3 Back to caregiver's		*
6-4 End of service		* (A)
6-5 Claims for accidents	Risks of counterfeit	©
7. Insurance cancellation	Human termination	(A) <b>(M</b> )
8. End of care service case	Human termination	A

Note: Transparency ©; Traceability \*;. Level of automation A; Counterfeit/Fraud-proof ©; Management of insurance/welfare M.