

-
- : Alex Pazaitis(((Alex Pazaitis) Ragnar Nurkse Department of Innovation and Governance, Tallinn University of Technology P2P P2P . Ragnar Nurkse Department .)), Primavera De Filippi(((Primavera De Filippi) Berkman Center for Internet & Society at Harvard Law School P2P . European University Institute in Florence .)), Vasilis Kostakis(((Vasilis Kostakis) Ragnar Nurkse Department of Innovation and Governance at Tallinn University of Technology Berkman Klein Center for Internet & Society at Harvard University Institute of Environmental Science and Technology at the Autonomous University of Barcelona 가 . P2P Lab P2P .))
 - : “Blockchain and value systems in the sharing economy: The illustrative case of Backfeed” (2017.5.25)
 - :
 - :
 - : Technological Forecasting and Social Change 125(2017)
-

$$(\dots)$$

4. (Backfeed)

가

. 가 , 가 .

가 . , 가 .

(CBPP, commons-based peer production)

, , 가가 가

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가 , 가

. 가

가

. 가 가

(Ito, 2016; Tapscott and Tapscott, 2016).

P2P ICT()

. CBPP (polycentricity), ,

가 .

가 가

가 . 가

가 . 가

가 가 가

가 가

가 .

4.1 () (“[r]evolution”)

가

(Davidson et al., 2016).

(backbone)

가 .

(Wright and De Filippi, 2015:6).

(batches)

‘ (blocks)

—P2P

— (Wright and De Filippi, 2015).

(Davidson et al., 2016)

가

(Wright and De Filippi, 2015).

(Davidson et al., 2016; Tapscott and Tapscott, 2016).

(Swan, 2015). P2P (Nakamoto, 2008), 가 . 가 가 (nodes) 가 가

’(proof of work)

(Davidson et al., 2016).

가

가 (Wright and De Filippi, 2015).

.

가

(Van Valkenburgh et al., 2014).

가 .

, ,

(Wright

,

and De Filippi, 2015).

4.2

가

(Free and Open-Source Software),

(OpenStreetMaps), (CouchSurfing),

(WikiHouse)

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가

가

.

가

(Fuster Morell et al., 2014).

가

(Arvidsson et al., 2016).

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가

가

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가

(Bauwens, 2011; Johnson, 2011).

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가

가 .

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가 .

(reputation)

() , 가

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가 가

가 .

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가 ,

(Reilly, 2010). 가 ,

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(Reason & Bradbury, 2008).

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가

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(Reilly, 2010).

가

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가 . , 가 , 가
 (OuiShare) .
 2015
 10 , 6 2016 5
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 가 CBPP
 가 가
 가 .

4.3. (Backfeed)

(Van Valkenburgh et al., 2014).

가 가
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P2P

가

가 (layer)

‘ (trustless)(([] trustless :
 , ‘
 ,
 3 ‘ 가 ,

..))

_____(Decentralised Cooperation, DC)

가

. DC

가

가

.

‘ (stigmergy,)

(, ,)

,

(Davidson et

al., 2016; Marsh and Onof, 2007).

(peers, 가)

.

(generic)

.

. DC

가

가_____(Proof-of-Value,

PoV)

가

. 1)

가

P2P 가

2) 가

가

(Davidson et al., 2016).

4.4.

— DC

DC

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가 .

DC 가 가 DC
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가
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DC
DC 50%가 가 .

DC 가 , 가 , ,
, . 가 가 .

DC 가

가 . () 가
가 가 (가
가 가).

DC 50%

가

가 DC 가 (1
5 5 , 가 가)

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가 가 .
가 가 가
가 가 .

가 가 가
가 가 .

4.5. —

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DC가 가 가
DC DC 가 (結晶)
DC
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DC1 (FabLab)(([] ‘ ’(FabLab)
가 .)) DC2가 DC1
DC2 DC1
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DC2 가
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DC



산업경제에서 정보경제로

	산업경제 (가격체계)	정보경제 (사회적 공유)
가치 생산	분업 교환가치 잉여를 위한 생산	사용자/생산자의 소통 사용가치 공유를 위한 생산
가치 기록	복식부기 합리화 & 탈인격화 수량화 & 추상	블록체인 탈중심화된 합의 및 참여 다양성 & 다중심성
가치 실현	시장에 내놓는 상품 화폐 효용 극대화	커먼즈와 공유경제 디지털 토큰 인식된 사회적 혜택

가 가 / 가

가
가

가 가

가

가 가

(2009) 7

75% (mining pools) 가
(Blockchain.info, 2017).

가

가

(Wikimedia Foundation, 2011).

가 가 (Khanna, 2012). 가

(Forte and Bruckman,

2005).

가

가 ,

가

가

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가

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가

가

가 가
가 ,
가
가

가 ICT, ,

5.

가 가
가 가
가 가
가 가
가
가
(commons-based peer
production, CBPP)
가
(結晶) 가
가
가 CBPP 가

가

가

가

가

가

가

가

가

가

가

가

가

가

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가

가



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