

# 가 :

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  - : [“Blockchain and value systems in the sharing economy: The illustrative case of Backfeed”](#) (2017.5.25)
  - :
  - :
  - : Technological Forecasting and Social Change 125(2017)
- 

# 가 :

(...)

#### 4. (Backfeed)

가 , 가 , 가 가

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가 .

가 , 가 .

(CBPP, commons-based peer production)

가 가 가

가 .

가 가 , 가

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가 .

가 가

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

P2P ICT( )

CBPP (polycentricity),

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가 . 가

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가 .

## 4.1 ( ) (“[r]evolution”)

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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  
2008),  
(nodes)

가

(Nakamoto,

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)

가 가

가  
(Fuster Morell et al., 2014).

가  
(Arvidsson et al., 2016).

가 가

가  
(Bauwens, 2011; Johnson, 2011).

가

가

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(reputation)

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(Reilly, 2010).

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(Reason & Bradbury, 2008).

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(Reilly, 2010).

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

### 4.3. (Backfeed)

(Van Valkenburgh et al., 2014).

가 가

P2P

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가 (layer)

'(trustless)(([ ] trustless :

3 ' 가

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                  (Decentralised Cooperation, DC)

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. DC

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가

(                  ,                  ) ‘                  ’(stigmergy,                  )

(Davidson et

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

(peers,                  가                  )

(generic)

. DC  
PoV)

가

가(Proof-of-Value,

가

. 1)

가

P2P 가

2)

가

가

(Davidson et al., 2016).

#### 4.4.

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4.6

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CBPP  
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## 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

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가

(2009 ) 7

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

가

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(Wikimedia Foundation, 2011).

가 가 (Khanna, 2012). 가

(Forte and Bruckman,

2005).

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production, CBPP) '(commons-based peer 가

가 CBPP

(結晶)

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가 CBPP

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