## 1 Introduction

phigher

i@14176@unTeter(steemstee);#Tj /T1\_0 1 Tf () Tj03.722 0 (no

onthis sense

а

-----

(a)

hnoh\_0 1 Tf ( )Tj /T3\_1 1 Tf 2.143 0 5ng)so

а

а

#### 3.2 The Pareto Frontier

d

$$\frac{d-x}{d}s + \frac{x}{d}V(d)$$

$$s = V(0)$$

$$d = 0$$

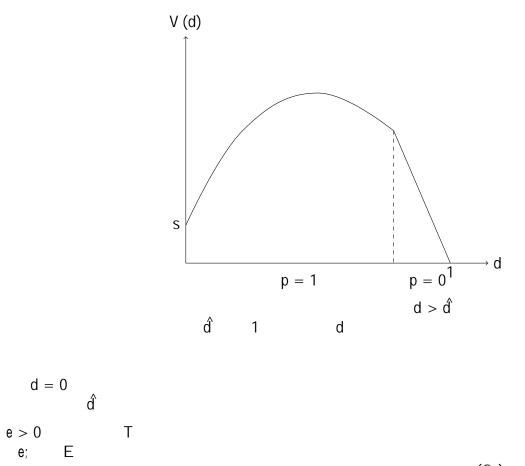
$$V(x)$$

$$V(x) = \frac{d-x}{d}V(0) + \frac{x}{d}V(d)$$

V (d)

S

a = 0



•

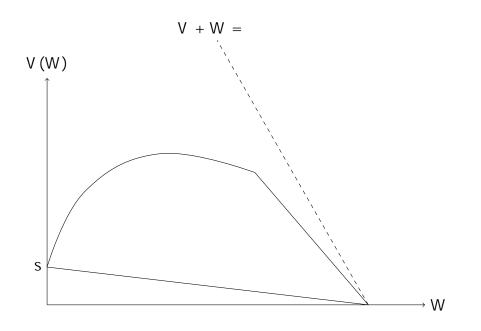
 $_0(f_T)$ 

f(d) > 0d f just

d

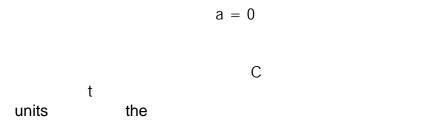
$$W = f ((1 - a) + a) + W$$
$$= f + W$$
$$W (d) \qquad \qquad W = W (d)$$
$$V W d$$

d



С

С –



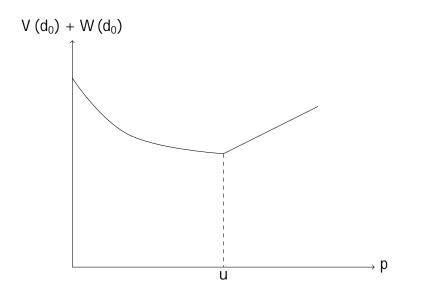
fol

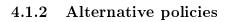
# 4 Di<sup>°</sup>clo<sup>°</sup>ure and Competition Policy

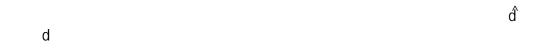
### 4.1 Disclosure

ua<sub>u</sub> a<sub>u</sub> 1 – a<sub>m</sub> u u <sup>13</sup>

а









a <sup>15</sup> s

d

V

$$\underline{V}(d)$$
 V  $S = 1$   $S = 0$ 

Lemma 6. V(d) = V(d) + s(1 - d)

S

S

 $V (d) = \max_{a;f} (1 - f)s + f(1 - a) ( - s)(d^{0} - d) + V^{0}(d)d$   $a = 0 \qquad f = 1$   $dV = ds = - (d^{0} - d) - d$   $= - (d^{0} - d) - (d - 1 - (d^{0} - d))$  = 1 - d

dV=ds

 $dV = d = {}^{2}(d^{0} - d) + \underline{V}^{0}(d)d$ 

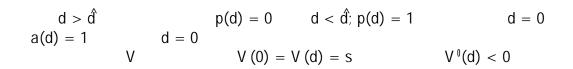
 $\mathsf{d}_0$ 

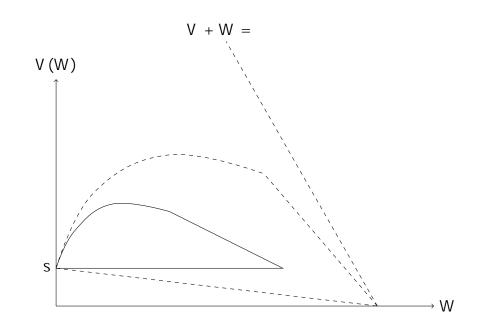
—

## 5 Extensions

#### .1 Limited commitment for the follower

S 0 V s 16d d = 1d f = 1 Lemma . d < d d f = 1 d d V(d) s d < d f = 0 d = dd  $\frac{d-d}{d}s + \frac{d}{d}V(d) = s$  $d \\ V(d) = s$ (d; 1] d > d  $f = 1 \qquad a = 1 \qquad d \qquad d \qquad d \\ V (d)$ d d d





V (d)

5.2.1 nown Transaction Value  

$$a + v \quad v > 0$$

$$a$$

$$W(d) = f(d) (v + a(d) + (1 - a(d))p(d)(W(d^{0}) - W(d))) + W^{0}(d)d$$

$$W + V = d( + v - s) + s$$

$$v$$

**Proposition 9.** dV (d)=dv > 0 d 2 (0; 1)

 $V^0 > V$ 

#### ,e sipe6...0 1 Tf ( )Tj23 V

v > 0

$$f = 1 \qquad a = 1$$
$$a = 0 \qquad \tilde{a} = 1$$

.3 Bad ad ice

s: a \_\_b + a \_b

 $\begin{array}{l} \displaystyle \frac{d}{d} \\ \displaystyle - \quad (W(d^0) - W(d)) + \quad {}_{b}(W(\underline{d}) - W) \quad 0 \end{array} \end{array}$ 

$$1 - (W(d^{0}) - W(d)) + \stackrel{b}{--}(W(\underline{d}) - W) = 0$$
$$W(\underline{d}) < W$$

\_

 $V(d) = \max_{a;f;d^{0}}(1-f)s + f(1-a) \quad (1+V(d^{0})-V(d)) + fa_{b}(-b+V(\underline{d})-V(d)) + V^{0}(d)d$   $V_{a = 0} \qquad a = 1$   $V(\underline{d}) < V(d)_{a}$ 

j/T3\_0 1 Tf 1.944 0 Td33 0 Td (of)aTj /y)28f (Tj /T3\_1 1 Tf -28.354 -1.208 Td .)TGames. SamTheoryTj /T3\_1 1 Tf -28.354 -1.

# roofs

## **Proof of Proposition 1**

W

V

 $a = 0 \quad a = 1 \qquad a = 1 \quad V(d) = V^{0}(d)(d-1)$   $V_{a=0}(d) - V_{a=1}(d) = (( -s) - V^{0}(d))(d^{0} - d)$   $= W^{0}(d)(d^{0} - d) > 0$   $f(d) = 1 \qquad a = 0$  W  $d^{2} \qquad a < 1$   $a(d) < 1 \qquad d0) < d0$ 

#### **Proof of Lemma**

Step 1: shape of W (and therefore V) for any f and a.

 $W(d) = + W^{0}(d)(d-1)$ • a(d) = 1f(d) = 0V W  $W(d) = W^{0}(d)d$ f(d) = 0W V f(d) = 1 a(d) = 0•  $V(d) = (-s)(d^{0} - d) + V^{0}(d)(d - 1 - (d^{0} - d))$  $d^0 - d = x$   $x^0 < 0$  W  $v^{1} + V^{0}(1 - x^{0})$ . . 0

$$V^{0} = (-s)x^{0} + V^{0}(d-1-x) + V^{0}(1-x)^{0} + V^{0}(d-1-x)^{0} + V^{0}(1-x)^{0} + V$$

$$\begin{array}{rcl} V^{\,00} &=& -x^0 & ( & -s - V^{\,0}) = d \\ &=& -x^0 & W^{\,0} = d \\ x^0 & d & & W^0 & V^{\,00} < 0 \end{array}$$

Step 2: kink point where  $d^0 = 1$  378.267 Tf ( )Tj /T1\_1 1 Tf 1.903 0 Td (d)Tj

## Proof of Lemma 3

$$p = 0 \qquad d$$

$$W = (d - W) - W$$

$$d - W = 1 \qquad W = \frac{1+}{1+} \qquad () \qquad ()$$

$$\frac{d}{d} = \frac{1 - (1 + )}{-(1 + )^2} = \frac{(1 + )}{-(1 + )^2} = \frac{1}{W}$$

$$V = (1 + (1 - d)s - V) + (s - V)$$
  
=  $\frac{+(1 - d)s + s}{1 + +}$   
=  $\frac{-}{1 + +} + \frac{(- + s)}{1 + +} - \frac{-}{1 + +}$   
Iim  $+ v$  =  $\frac{1}{1 + 1 - W} + \frac{(1 + 1 - W)s}{1 + 1 - W}$   
=  $\frac{W}{W + 1} + s$ 

V > S

d