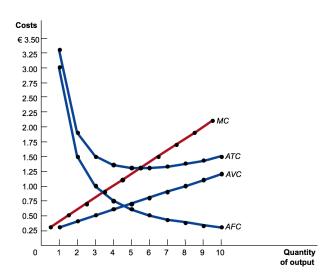
MS3 – Supervision #2 Economics of firms and markets M.G. Pollitt

G. Dolphin

November 8, 2016

Costs

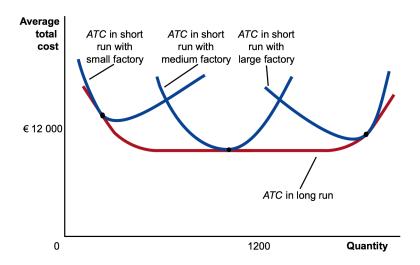


Costs – a numerical illustration

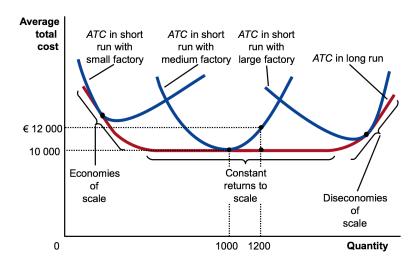
Table: Cost

Workers	Output of loaves	Marginal Product	Total cost	Average total cost	Marginal cost
0	0	NA	200	NA	NA
1	20	20	300	15	5
2	50	30	400	8	3.34
3	90	40	500	5.56	2.5
4	120	30	600	5	3.34
5	140	20	700	5	5
6	150	10	800	5.34	10
7	155	5	900	5.81	20

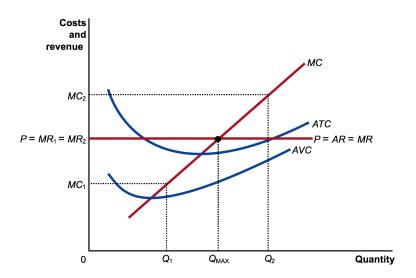
ATC and Minimum Efficient Scale (1)



ATC and Minimum Efficient Scale (2)



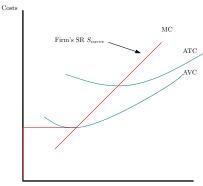
Profit maximisation – perfect competition



Operation vs. Shut down — Entry vs. Exit (Sloman, J. Hinde K.

& Garratt, D. - 2013) (1)

Operation vs. shut down



Quantity $TR < VC \Leftrightarrow \frac{TR}{Q} < \frac{VC}{Q} \Leftrightarrow P < AVC$

Operation vs. Shut down — Entry vs. Exit (2)

Operation vs. shut down

- Shutdown condition: $p = AR < AVC \Leftrightarrow TR < TVC \Leftrightarrow Operating loss$
- If p > AVC, SR operation to reduce the loss

Entry vs. exit

- Exit condition: $p = AR < AC \Leftrightarrow TR > TC \Leftrightarrow loss$
- If *p* < *AC*, exit.

Perfect competition vs. ...

... other market structures

- Monopoly
- Monopolistic competition
- Oligopoly (non-collusive)
- Collusion
- Contestable markets: the threat of new entrants induces perfect competition outcomes

Monopoly

