Of Carrots and Sticks:

A Behavioral
Approach to

Motivation



Merrilyn Akpapuna and Douglas A. Johnson

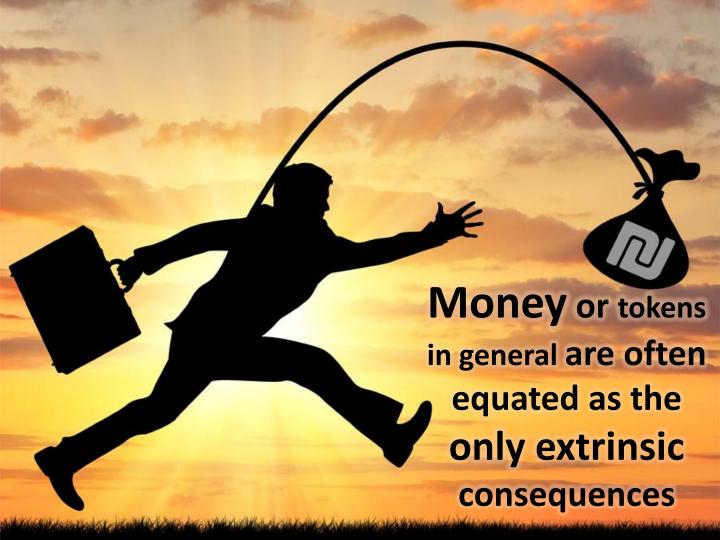


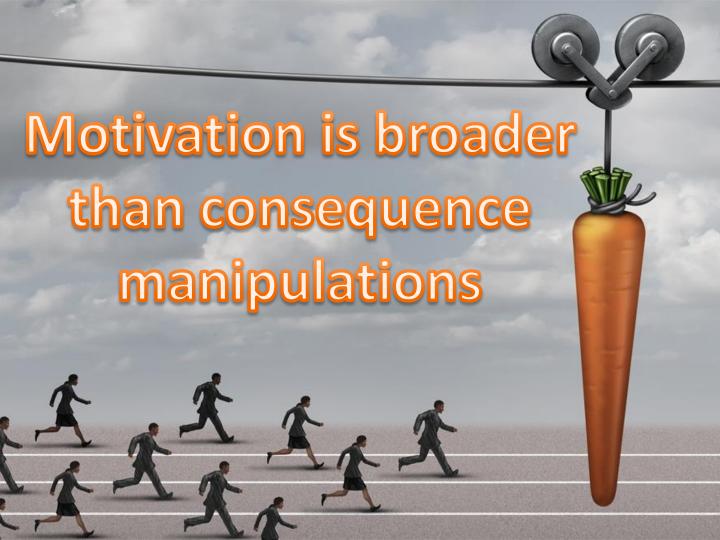














Conditioned Motivating Operations (CMOs)









Do external outcomes harm natural interest?





Questionable research tactics

- Pre- or posttest design
- Self report
- Observation period
- Number of sessions (data points)
- Averaging data

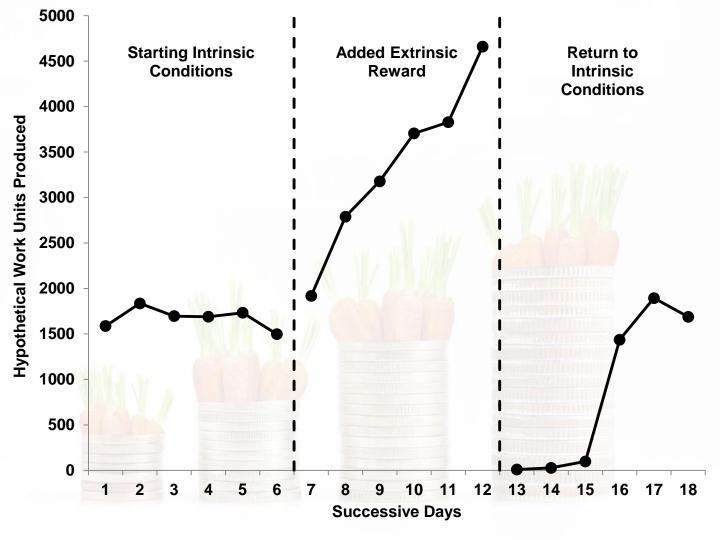
Why these methods matter: Some hypothetical data of two groups under different conditions

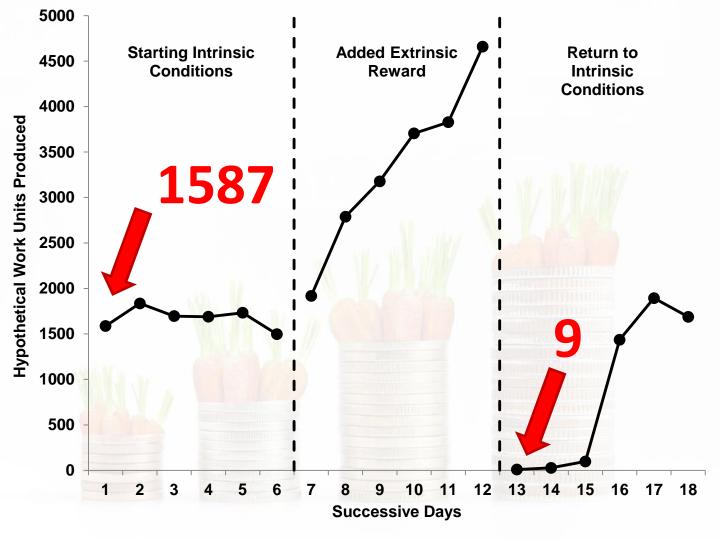
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Group 1	1587	1836	1696	1689	1733	1497	1918	2789	3178	3705	3828	4658	9	28	98	1437	1894	1688
Group 2	1699	1549	1629	1554	1748	1976	1478	1784	1633	1687	1773	1566	1908	1693	1707	1495	1646	1589

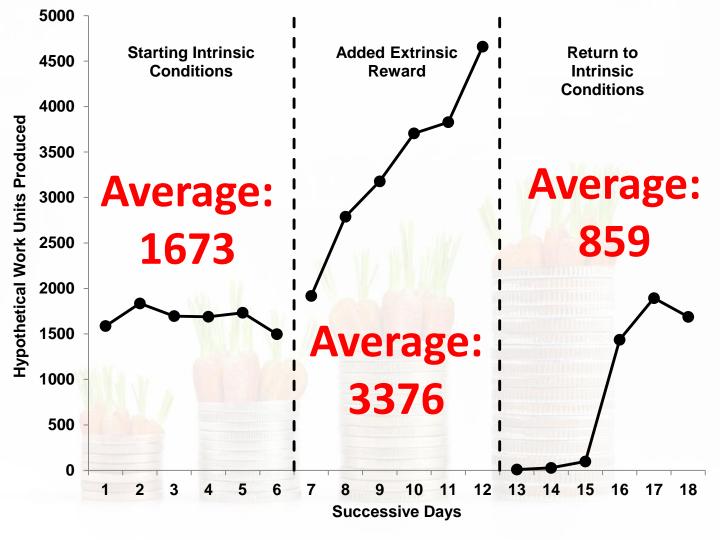
Group 1: Intrinsic/Extrinsic/Intrinsic

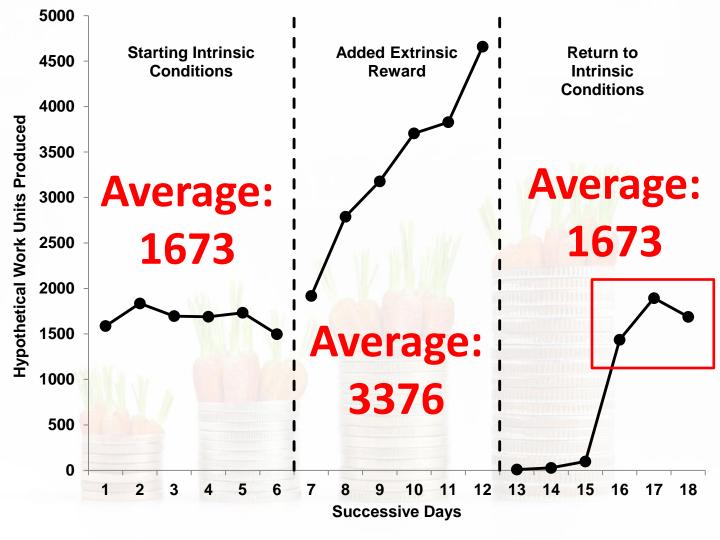
Group 2: Control group; average performance of 1673

Example data and graph from: McGee & Johnson, 2015









You get what you pay for

- Task-contingent rewards
- Performance-contingent rewards





Implications for motivation



- More research
- Environment manipulations
 - Consequences
 - Antecedents



Implications for motivation



- Performance contingent rewards
- Variety of tasks



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THANK YOU

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