16 Mar 2022 bacterial resistance to antibiotics antibiotics are ancient antibiotic resistant is also ancient (mobile ABR is more recent) > in human/animal lineages > ABR is often found in untibiotic producers « methicillin resistant Staph aureus MRSA multi drug resistant MRSA
extensively drug resistant Juberculosis? horizontal transfer BETWEEN SPECIES Collateral or non-target selection cost of resistance.

IMPLICATIONS · management. · avoid overuse! . AGRICULTURAL USE · growth promoter · agricultural use is important EARLY in the process of emergence - what new forms of resistance? - spillover events management SINGLE autibiotie (> it doesn't matter MULTIPLE antibiotics -· vary in space? Eggle in time? )X cocletails > The is an exception to general

