ESTIMATING DOMESTIC WATER CONSUMPTION drinking & cooking  $V_{consumed}^{(total)} \approx V_{cooking~\&~drinking}^{(total)} + V_{sanitation}^{(total)} \approx 1.f \times 10^{14}~L~/~year$  $-V_{drink}^{(capita)} \approx \frac{8 \text{ glasses}}{day} \times \frac{f \times 10^{-1} \text{ L}}{\text{glass}} \approx \text{ f L / day}$ Oin et al. 2019 --- estimated cooking & drinking  $-V_{cooking}^{(capita)} \approx V_{drink}^{(capita)} \approx f L / day$ total estimated use ---- estimated sanitation use 1.0  $V_{\text{drinking \& cooking}}^{\text{(total)}} \approx 8 \times 10^9 \text{ people } \times \frac{10 \text{ L}}{\text{dayx person}} \times \frac{365 \text{ days}}{\text{vear}}$ vater consumption [1014 ≈f×1013 L / year annual domestic sanitation  $-V_{\text{toilet}}^{\text{(capita)}} \approx \frac{\text{f L}}{\text{flush}} \times \frac{\text{f flushes}}{\text{day}} \approx 10 \text{ L/day}$ 0.6  $V_{\text{shower}}^{\text{(capita)}} \approx \frac{\text{f L}}{\text{min}} \times \frac{10 \text{ min}}{1 \text{ shower}} \times \frac{\text{f showers}}{\text{week}} \times \frac{1 \text{ week}}{7 \text{ days}}$ 0.4  $\approx 10 L / dav$ 0.2  $V_{\text{laundry}}^{\text{(capita)}} \approx \frac{10^2 \text{ L}}{10\text{ ad}} \times \frac{1 \text{ load}}{2 \text{ weeks}} \times \frac{1 \text{ week}}{7 \text{ days}} \approx \text{f L / day}$ 0.0  $V_{\text{sanitation}}^{\text{(total)}} \approx 8 \times 10^9 \text{ people} \times \frac{\text{f} \times 10 \text{ L}}{\text{day} \times \text{person}} \times \frac{365 \text{ days}}{\text{vear}}$ 1980 1990 2000 2010 year ≈1014 L / year

(B)

(A)