

$$\begin{array}{ccc}
 (f_1, f_2, f_3) = V & \longrightarrow & f_1 \mathrm{d}y \wedge \mathrm{d}z + f_2 \mathrm{d}z \wedge \mathrm{d}x + f_3 \mathrm{d}x \wedge \mathrm{d}y \in \Omega^2(\mathbb{R}^3) \\
 \downarrow \text{div} & & \downarrow \mathrm{d} \\
 \frac{\partial f_1}{\partial x} + \frac{\partial f_2}{\partial y} + \frac{\partial f_3}{\partial z} & \longleftarrow & \left(\frac{\partial f_1}{\partial x} + \frac{\partial f_2}{\partial y} + \frac{\partial f_3}{\partial z} \right) \mathrm{d}x \wedge \mathrm{d}y \wedge \mathrm{d}z \in \Omega^3(\mathbb{R}^3)
 \end{array}$$