We discuss asymptotic properties of solutions of two component parabolic drift-diffusion systems coupled through an elliptic equation in two space dimensions. In particular, conditions for finite time blowup versus existence of forward self-similar solutions are studied for the systems

$$\frac{\partial}{\partial t}u_1 = \nabla \cdot (\nabla u_1 + t_1 u_1 \nabla v), \tag{1}$$

$$\frac{\partial}{\partial t}u_2 = \nabla \cdot (\nabla u_2 + t_2 u_2 \nabla v), \tag{2}$$

$$-\Delta v = g_1 u_1 + g_2 u_2, \tag{3}$$

where u_1, $u_2 \geq 0$ are densities of two species, masses (or charges) are $\int_{\mathbb{R}^2} u_i \mathrm{d}x = M_i, i = 1, 2$.