```
from sklearn.manifold import TSNE

data_1000 = standardized_data[:1000,:]
labels_1000 = labels[:1000]

model = TSNE(n_components=2, random_state=0)

# model = TSNE(n_components=2, random_state=0, perplexity=50, n_iter=5000)
#default perplexity(neighbours to be conserved) is 30
#default iteration = 1000
#default learning rate = 200
tsne_data = model.fit_transform(data_1000)

tsne_data = np.vstack((tsne_data.T, labels_1000)).T
tsne_df = pd.DataFrame(data= tsne_data, columns=('Dim_1', "Dim_2" label))

sns.FacetGrid(tsne_df, hue='labels', size=6).map(plt.scatter,
                                                 'Dim_1',
                                                 'Dim_2')
plt.show()
```

Note: Do standardization on data before running t-SNE