## We analyzed each player's every shift to compute new metrics and gain a better understanding of their impact

Given our knowledge of location and context for any shot taken or given to the opponent while a player is on the ice, we can calculate expected contribution of said player. This allows us to see if there are discrepancies between expected and actual offensive production, but also gain insight into a player's defensive liability.

**Details on new player evaluation metrics**

| Metric | Explanation | Interpretation |
|---|---|---|
| (A) Expected goals contributed to per 60 minutes played | Expected goals scored for team by 60 minutes of play for player X (based on location and context of each shot taken while player X is on ice) | A high expected goal created number indicates that a player generates a high number of scoring chances |
| Expected goals given per 60 minutes played | Expected goals scored by opposing team by 60 minutes of play for player X (based on location and context of shots by opposing team while player X is on the ice) | A high expected goal given number indicates that the player gives up many chances to opponents |
| (B) Expected goals contributed to / expected goals given | This is the ratio of expected goals contributed to and expected goals given | A number above 1 indicates that the player generates more offensive chances than he gives up (positive contributor to the team) |
| (C) Clutch Factor | Actual points produced (goals + assists) divided by expected goals contributed to | A high number can indicate "clutch" play, an ability to perform under pressure, or pure luck (leading to higher conversion) |

**Example of player profiles produced by the tool**