

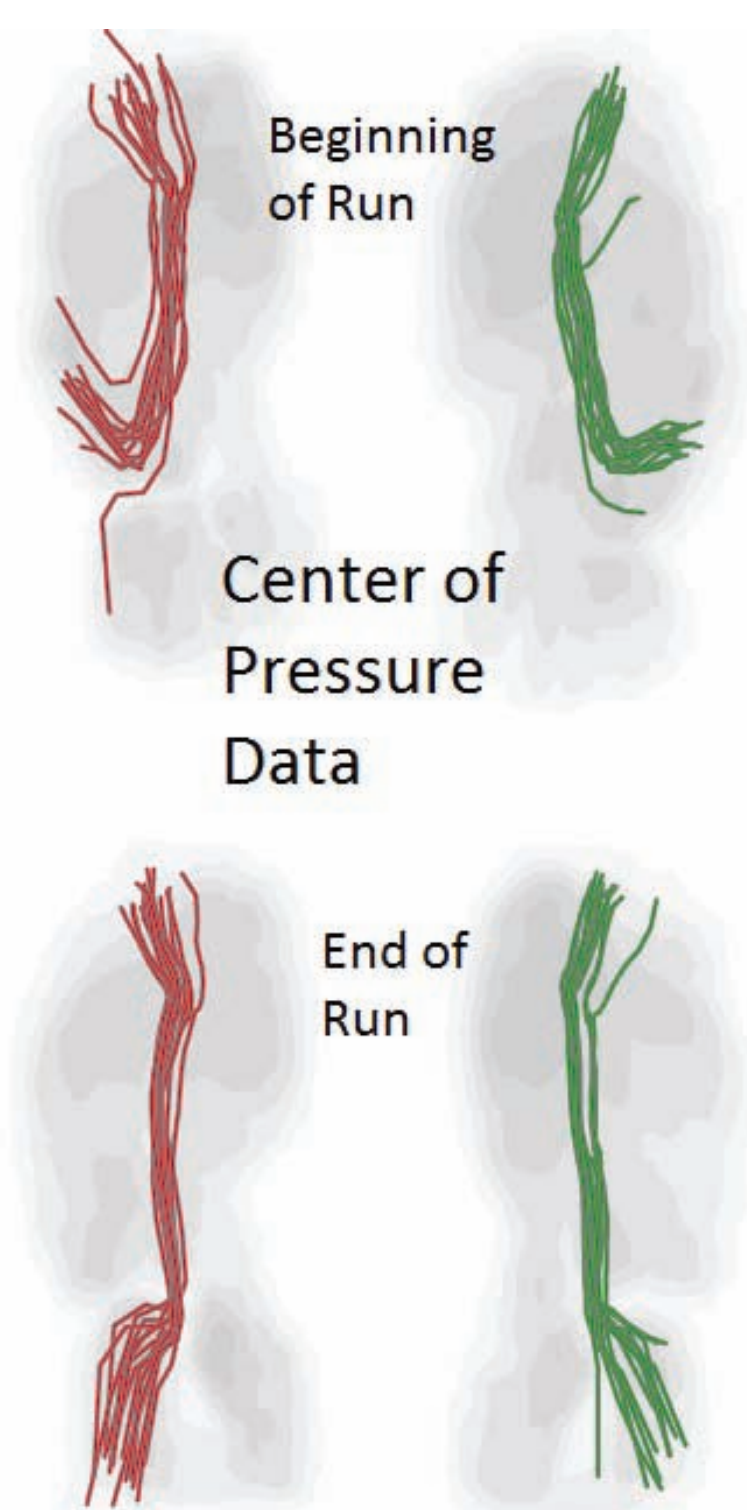


# HUMAN PERFORMANCE ASSESSMENT CORE (HPAC)

Enhancing The Quality Of New And Existing Research, Facilitating Cross Disciplinary Projects, And Providing Expertise In Translational Research Related To Human Performance And Health/fitness

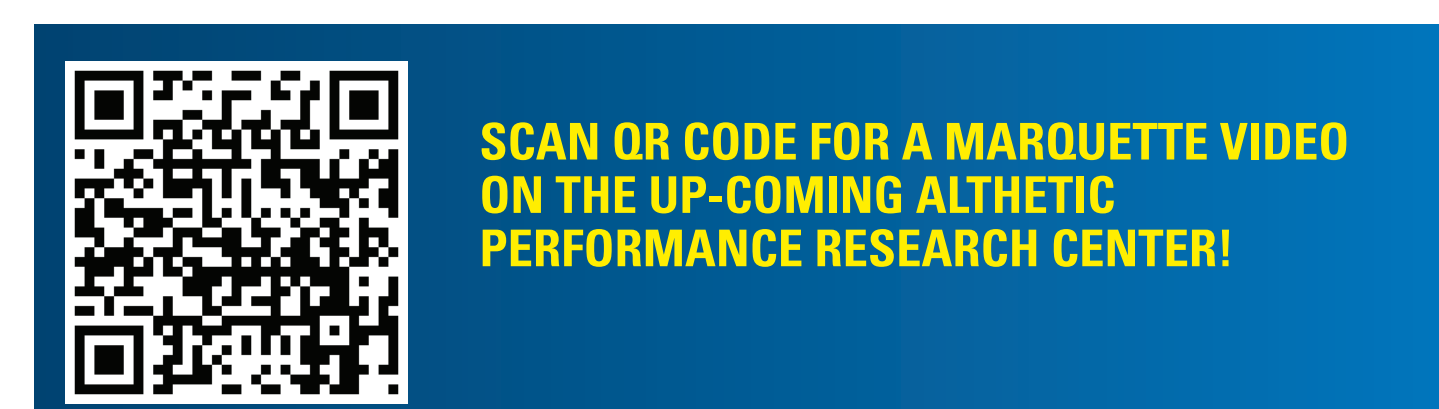
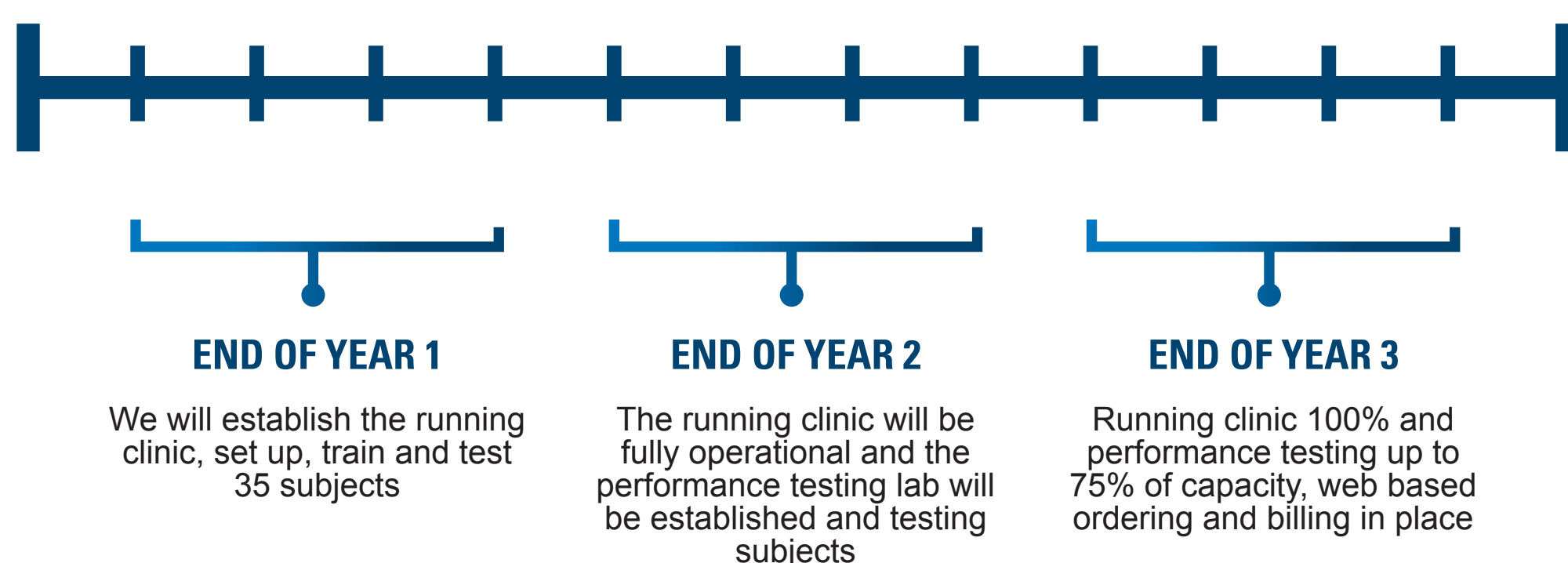
## HUMAN PERFORMANCE ASSESSMENT CORE (HPAC)

Human Performance Assessment Core or HPAC will be an innovative, self-sustaining, and fee-for-service core for assessment of human performance/health/fitness for all populations (i.e., healthy, athletic, and clinical) servicing researchers, MU community, and the greater SE Wisconsin region. HPAC will enhance the quality of new and existing research, facilitate cross disciplinary projects, and provide expertise in translational research related to human performance and health/fitness. We will increase the opportunities for studies that rely on human performance research, as well as provide health/fitness assessments for MU student/employee wellness community. HPAC will also serve as a satellite and pilot test site to determine the feasibility of a much larger fee for service billing being considered in the sport science research facility under development.



"Center of Pressure images before and after fatigue. Images show how foot strike pattern shifts toward the rearfoot, which results in greater impact forces as the runner fatigues, which contributes to their running-associated pain"

## MILESTONES



## ABOUT OUR TEAM

- PE Papanek**, EXSC/PT. Principal lead, will hire physiologist, chair oversight committee, coordinate equipment purchases, renovation of space and train/supervise new physiologist, assist with budget reports and use core.
- K Kipp**, EXSC/Biomechanist. CoPrincipal and lead on running clinic, will be on oversight committee, assist in equipment purchase, set up and developing protocols. Will use core for future grants.
- S Hunter**, EXSC. On oversight committee, will use core for future grants for herself and her grad students
- C Geiser**, ATTR/PT. Oversee purchases for running clinic, set up protocols, train clinic staff. Will use core.
- B Schidt**, BME. On oversight committee. Will use core for future work
- Kristin Kipp**, Employee Wellness. Runs wellness programs, will coordinate measurements/classes offered via employee wellness with offerings in the HPAC. Will assist with fee scheduling for wellness offerings.
- J Wilkens** MU Sports Rehab Clinic Director. Refer clients, use reports for patient rehabilitation plans. Will be on oversight committee and use core.
- C. Smith**, MU Medical Clinic Director. On oversight committee. Will refer students to HPAC, collaborate on research project in the core.

Originally, HPAC was submitted as 2 preproposals. We saw the cost savings and potential to enhance each others proposals so we combined teams and became 1.

Our team is committed to innovation, engaging others and servicing the greater Marquette community in a state of the art, self-sustaining, fee-for-service core for research and measurement of human performance and clinical gait/running.

## BEYOND BOUNDARIES Research in Action

The HPAC will epitomize "research in action", because it supports objective assessment services and development of evidenced-based treatments that could potentially target clinical (e.g., MS, post cancer, diabetes, stroke, obese, spinal cord injury), healthy and athletic populations via a collaborative research model. HPAC will support the growing MU employee wellness initiatives by providing state of the art services and referring to employee wellness when clients seek programs to help them improve upon their health after testing. This facility is particularly powerful for faculty who do not have access or collaborations with laboratories that do have the equipment to provide specialized assessments

**Social Responsibility and Community Engagement:** HPAC will provide testing for the broader SE WI community, both healthy and clinical populations. There are no such facilities available to the community, special populations or even within Marquette. The expansion of wheelchair/body weight support testing is seen as important to community engagement given the MU adaptabilities club/wheelchair lacrosse team, (new on campus) and local Milwaukee veteran populations.

**Enhancement of Organizational Effectiveness:** Requests for exercise and functional assessments from within the athletic and research community will be centralized through one facility/office, will be revenue generating and promote efficient stewardship of MU resources. At present requests are made from within and outside the Marquette community on an adhoc and disparate basis, often by contact of individual faculty who try to make accommodations.